

SONY

カラービデオプリンター
COLOR VIDEO PRINTER

UP-2800

UP-2900MD

UP-2950MD

UP-2300

UP-2800P

UP-2850P

UP-2300P

SERVICE MANUAL

Vol. 2 (1st Edition)

このマニュアルについて

本書の目的

本書はサービスマニュアルVol.2です。

本書では、半導体、補修部品表、ブロックダイヤグラム、マウント図、回路図を記載しています。

関連マニュアル

この「サービスマニュアルVol.2」の他に、下記のマニュアルが用意されています。

- サービスマニュアルVol.1

部品番号：9-974-799-11 (J向)

本機の取扱説明、サービスインフォメーション、調整要項、回路動作説明、メカ動作説明、トラブルシューティング等を記載しています。

Purpose of this manual

This manual is the Service Manual Vol.2.

This manual contains the semiconductor pin assignment, spare parts, block diagram, circuit diagrams and mounted circuit boards.

Related manuals

In addition to this Service Manual Vol.2, the following manual is provided.

- Service Manual Vol.1

Part No. 9-977-296-11 (for UC, CE)

Contains the operating instructions, service information, adjustments, circuit description, mechanical description and trouble shooting.

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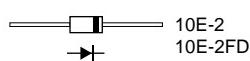
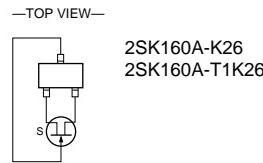
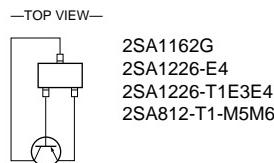
SECTION 7

SEMICONDUCTOR PIN ASSIGNMENTS

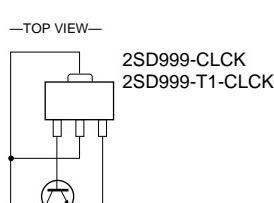
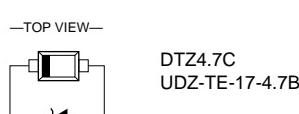
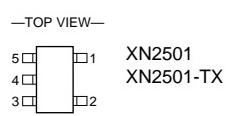
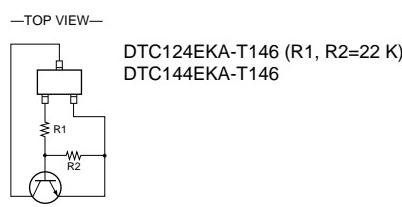
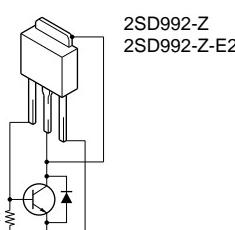
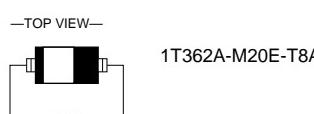
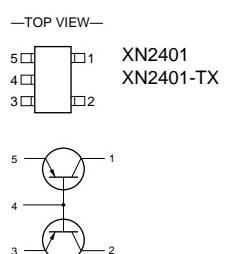
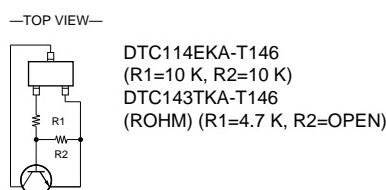
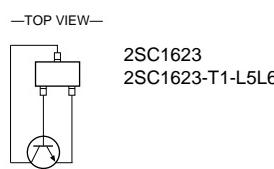
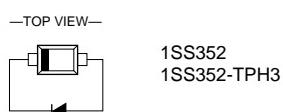
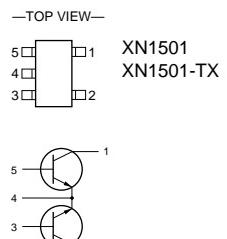
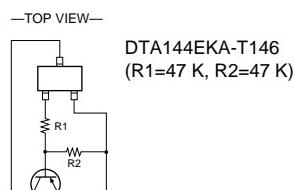
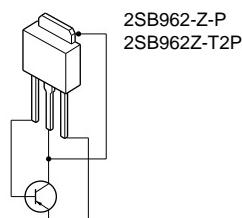
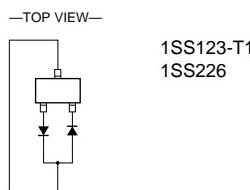
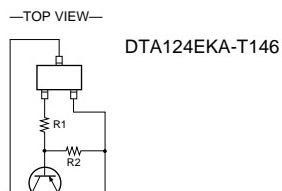
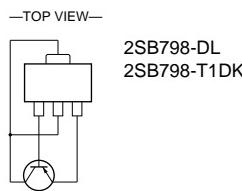
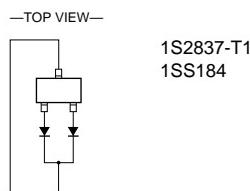
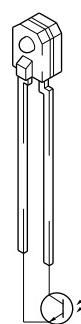
Semiconductors of which functions are equivalent are described here. For parts replacement, refer to the section of Spare Parts in this manual. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

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1SS226	7-3	2SA1226-E4	7-3	PG1101W-TR	7-4	CXA1211M-T4	7-6
1SS352	7-3	2SA1226-T1E3E4	7-3			CXA1213BS	7-5
1SS352-TPH3	7-3	2SA812-T1-M5M6	7-3			CXA1437Q	7-6
1T362A-M20E-T8A	7-3	2SB798-DL	7-3			CXA1645M	7-7
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		2SC1623	7-3	GP1S58V	7-4	CXD1176Q	7-8
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		2SK160A-K26	7-3			CXD2023Q	7-9
		2SK160A-T1K26	7-3			CXD2024AQ	7-12
		DTA124EKA-T146	7-3			CXD8636Q	7-11
		DTA144EKA-T146	7-3			CXD8653Q	7-11
		DTC114EKA-T146	7-3			CXD8665Q	7-13
		DTC124EKA-T146	7-3			CXD8865R	7-13
		DTC143TKA-T146	7-3			CXD8868Q	7-13
		DTC144EKA-T146	7-3			CXD8869Q	7-14
		PT480F	7-3			CXD8932Q	7-14
		XN1501	7-3			DS1000Z-50	7-15
		XN1501-TX	7-3			DS1000Z-50(TE2)	7-15
		XN2401	7-3			DS1000Z-75	7-15
		XN2401-TX	7-3			DS1000Z-75(TE2)	7-15
		XN2501	7-3			HD6413378F10	7-15
		XN2501-TX	7-3			HD6433040S-A00F	7-16
		XN4501	7-4			HM51W4265CLTT-6	7-14
		XN4501-TW	7-4			HN58C66FP-25	7-17
		XN4601	7-4			HN58C66SFP25TZ	7-17
		XN4601-TW	7-4			LM358PS	7-16
						LM358PS-E05	7-16
						LM393PS	7-16
						LM393PS-E05	7-16
						M62352GP	7-17
						M62352GP-75EC	7-17
						M62354FP-T1	7-18
						MAX202CSE	7-17
						MAX202CSE-TE2	7-17
						MB3863PF-G-BND	7-18
						MB3863PF-G-BND-ER ..	7-18

IC	Page	IC	Page
MC14576CFEL	7-18	TC7W08F(TE12R)	7-24
MC74F04MEL	7-18	TL431CPS	7-25
MC74F74M-EL	7-19	TL431CPS-E20	7-25
MC74HC4538AF	7-19	UPC311G2	7-25
MC74HC4538AFEL	7-19	UPC311G2-E2	7-25
MX27C1000DC-12	7-19	UPC324G2	7-25
MX27C2000DC-12	7-20	UPC324G2-E2	7-25
MX27C4000MC-12-TEL	7-20	UPC339G2-E2	7-25
NJM2230M	7-19	UPD6466GS-502-E2	7-25
NJM2230M(TE2)	7-19	UPD71051GU-10	7-26
NJM2233BM	7-20	UPD71051GU-10-E2	7-26
NJM2233BM(TE2)	7-20	UPD71055GB-3B4	7-26
NJM78L09UA(TE1)	7-19		
PQ05SZ1U	7-21		
PQ3RF33	7-21		
PST572CMT	7-21		
PST572CMT-T1	7-21		
RPI-5100	7-21		
S16MD01	7-21		
SC7S02F	7-21		
SLA7024M	7-21		
SN74HC02ANS	7-21		
SN74HC02ANS-E05	7-21		
SN74HC04ANS	7-22		
SN74HC08ANS	7-22		
SN74HC08ANS-E05	7-22		
SN74HC138ANS	7-22		
SN74HC138ANS-E05	7-22		
SN74HC14ANS	7-22		
SN74HC14ANS-E05	7-22		
SN74HC161ANS	7-22		
SN74HC161ANS-E05	7-22		
SN74HC21ANS	7-23		
SN74HC21ANS-E05	7-23		
SN74HC245ANS	7-23		
SN74HC245ANS-E05	7-23		
SN74HC257ANS-E05	7-23		
SN74HC32ANS	7-23		
SN74HC32ANS-E05	7-23		
SN74HC541ANS	7-23		
SN74HC541ANS-E05	7-23		
SN74HC574ANS	7-24		
SN74HC574ANS-E05	7-24		
SN74HC74ANS	7-24		
SN74HC74ANS-E05	7-24		
SN74HCU04ANS-E05	7-22		
SN74HCU04ANS-E20	7-22		
ST24C01FM6TR	7-24		
TC4W53F	7-24		
TC4W53F(TE12R)	7-24		
TC7S02F(TE85R)	7-21		
TC7S66F	7-24		
TC7S66F(TE85R)	7-24		
TC7W00F(TE12R)	7-24		
TC7W08F	7-24		

DIODE**TRANSISTOR**

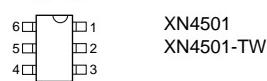
PT480F



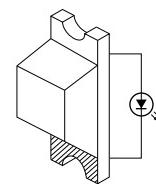
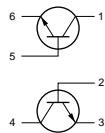
LED

OTHERS

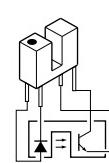
—TOP VIEW—



XN4501
XN4501-TW

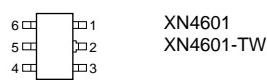


AA1101W ; ORANGE
PG1101W-TR ; GREEN

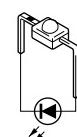
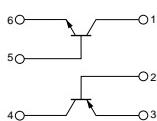


GP1S54
GP1S58V

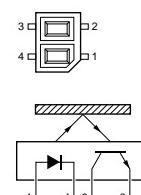
—TOP VIEW—



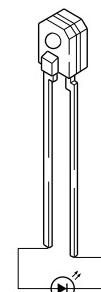
XN4601
XN4601-TW



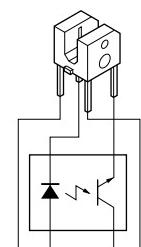
GL1EG111 ; YELLOWISH GREEN



GP2S40K



GL480 ; INFRARED



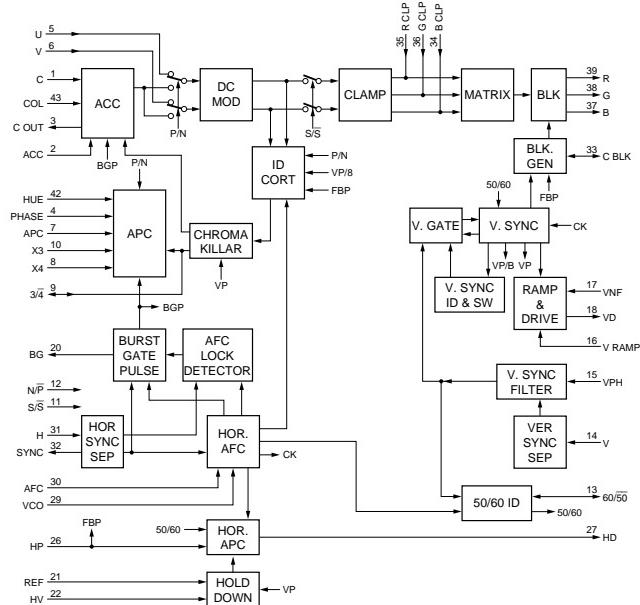
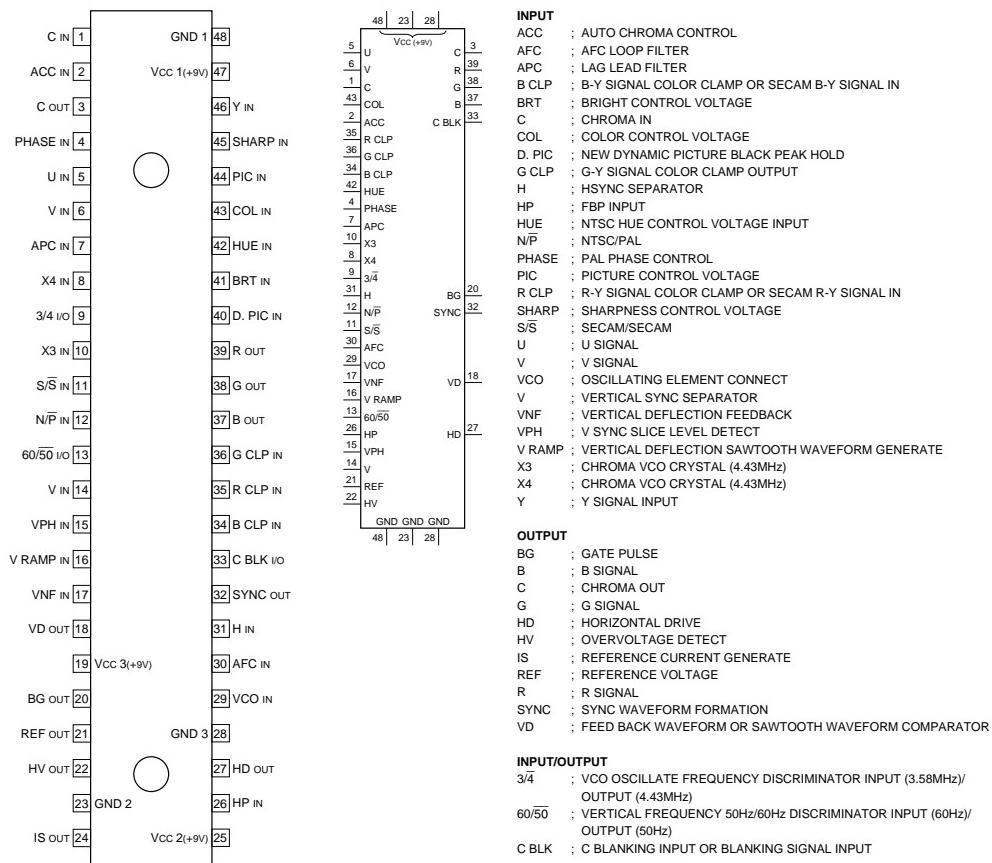
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IC

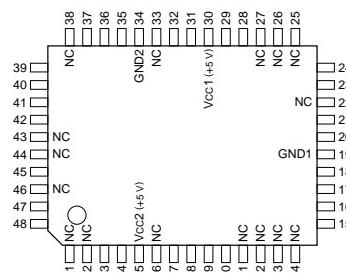
CXA1213BS (SONY)

PAL/NTSC COLOR DECODER

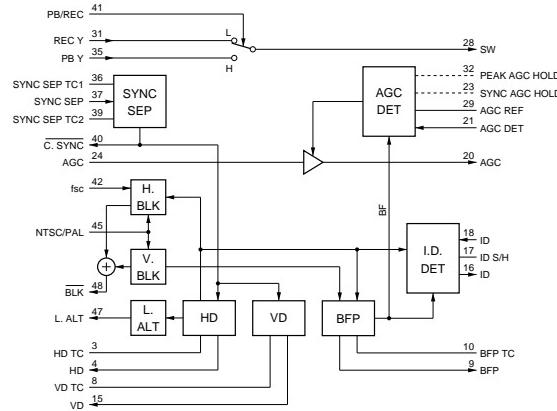
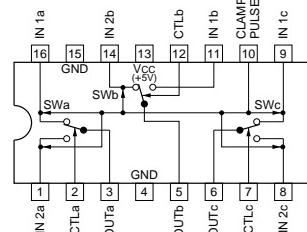
—TOP VIEW—



CXA1437Q (SONY)

PULSE GENERATOR
—TOP VIEW—

PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	—	NC	13	—	NC	25	—	NC
2	—	NC	14	—	NC	26	—	NC
3	—	HD TC	15	O	VD	27	—	NC
4	O	HD	16	O	ID	28	O	SW
5	—	VCC2	17	—	ID S/H	29	—	AGC REF
6	—	NC	18	I	ID	30	—	VCC1
7	—	I REF	19	—	GND1	31	I	REF Y
8	—	VD TC	20	O	AGC OUT	32	—	PEAK AGC HOLD
9	O	BFP	21	I	AGC DET	33	—	NC
10	—	BFP TC	22	—	NC	34	—	GND2
11	—	NC	23	—	SYNC AGC HOLD	35	I	PB Y
12	—	NC	24	I	AGC	36	—	SYNC SEP TC1
						37	I	SYNC SEP
						38	—	NC
						39	—	SYNC SEP TC2
						40	O	C. SYNC
						41	—	PEAK AGC HOLD
						42	I	fsc
						43	—	NC
						44	—	NC
						45	I	NTSC/PAL
						46	—	NC
						47	O	L. ALT
						48	O	BLK

BA7606F (ROHM)
BA7606F-T23-INNPUT VIDEO SWITCH FOR VTR
—TOP VIEW—

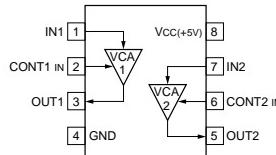
CLT	OUT
0	IN 2
1	IN 1

0 ; LOW LEVEL
1 ; HIGH LEVEL

INPUT	
AGC DET	; AGC DET
AGC	; AGC
fsc	; H BLK fsc (Y: NONSYNC)
ID	; ID DET (L: R-Y, H: B-Y)
NTSC/PAL	; BLK NTSC/PAL SWITCH (L: NTSC, H: PAL)
PB/REC	; PB/REC SWITCH (L: PB, H: REC)
PB Y	; PB Y SWITCH
REC Y	; REC Y SWITCH
SYNC SEP	; SYNC SEPARATOR

OUTPUT	
AGC	; AGC
BFP	; BFP (BLANKING SIGNAL IN V BLK)
BLK	; COMPOSITE BLANKING SIGNAL
C. SYNC	; C. SYNC
HD	; HD PULSE
ID	; ID DETECT (PLAYBACK COLOR DIFFERENCE SIGNAL (L: R-Y, H: B-Y))
L. ALT	; HD 1/2 COUNT DOWN
SW	; SWITCH
VD	; VD PULSE

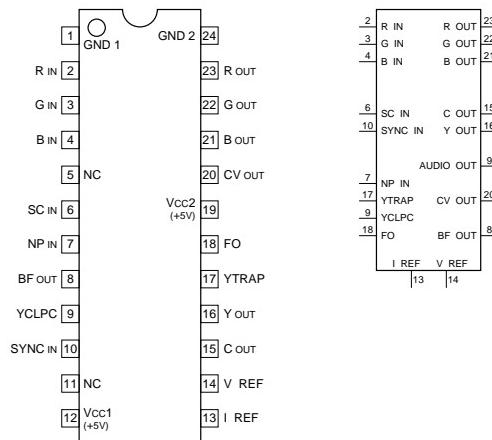
OTHER	
AGC REF	; AGC LEVEL ADJUSTMENT
BFP TC	; BFP TIME CONSTANT
HD TC	; HALF H KILLER MONO-MULTI TIME CONSTANT
ID S/H	; ID DET SAMPLE HOLD CAPACITOR
I REF	; REFERENCE CURRENT (VD, HD, BFP TIME CONSTANT)
PEAK AGC HOLD	; PEAK AGC TIME CONSTANT
SYNC AGC HOLD	; SYNC AGC TIME CONSTANT
SYNC SEP TC1	; SYNC TIP POSITION DETECT
SYNC SEP TC2	; FEED BACK CLAMP TIME CONSTANT
VD TC	; VD DET TIME CONSTANT

CXA1211M (SONY)
CXA1211M-T4ELECTRONIC VOLUME
—TOP VIEW—

CXA1645M (SONY)FLAT PACKAGE
CXA1645M-T6

RGB COMPOSITE ENCODER

—TOP VIEW—



INPUT

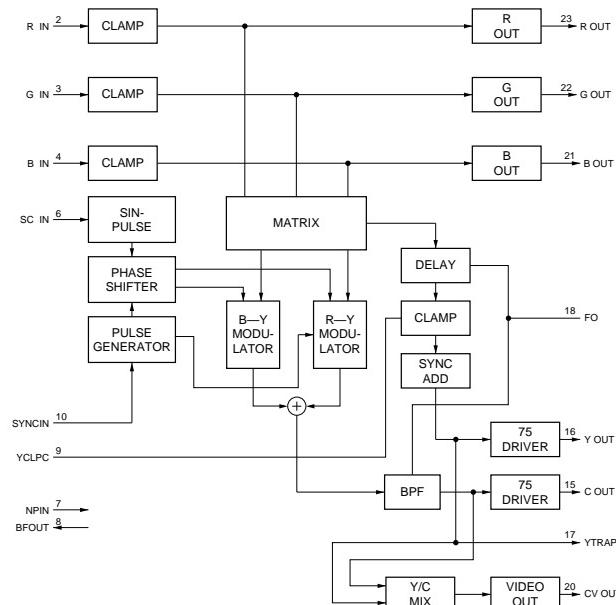
B IN ; ANALOG B
G IN ; ANALOG G
NP IN ; NTSC/PAL MODE SELECT
R IN ; ANALOG R
SC IN ; SUB-CARRIER
SYNC IN ; COMPOSITE SYNC SIGNAL

OTHER

FO ; fo ADJUST FOR INNER FILTER
IREF ; REFERENCE CURRENT
VREF ; REFERENCE VOLTAGE
YCLPC ; Y SIGNAL CLAMP CAPACITOR
YTRAP ; Y SIGNAL CROSS-COLOR TRAP

OUTPUT

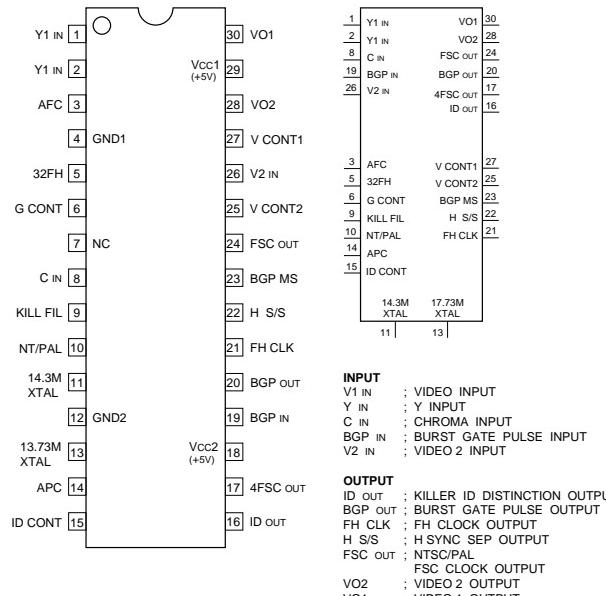
B OUT ; ANALOG B
BF OUT ; BF PULSE FOR MONITOR
C OUT ; CHROMA SIGNAL
CV OUT ; COMPOSITE VIDEO
G OUT ; ANALOG G
R OUT ; ANALOG R
Y OUT ; Y SIGNAL



CXA1686M (SONY)FLAT PACKAGE
CXA1686M-T6

4FSC CLOCK GENERATOR

—TOP VIEW—

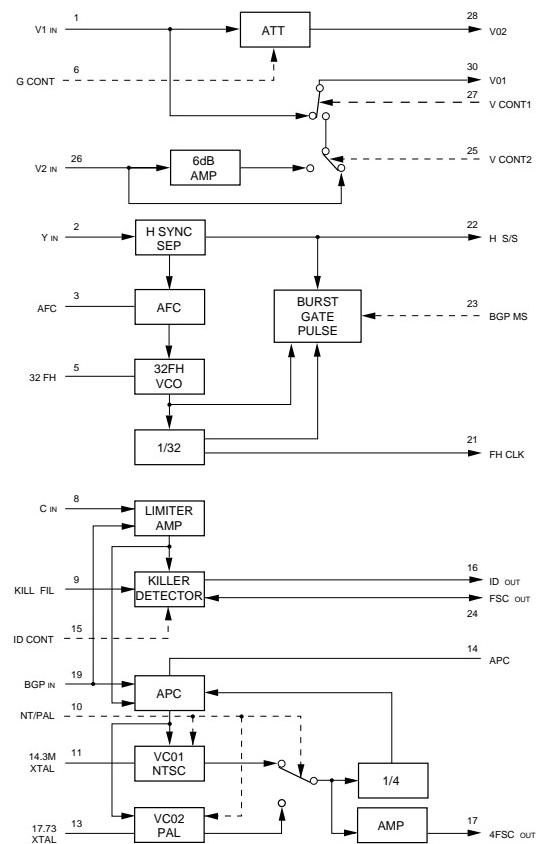


INPUT

V1 IN ; VIDEO INPUT
Y IN ; Y INPUT
C IN ; CHROMA INPUT
BGP IN ; BURST GATE PULSE INPUT
V2 IN ; VIDEO 2 INPUT

OUTPUT

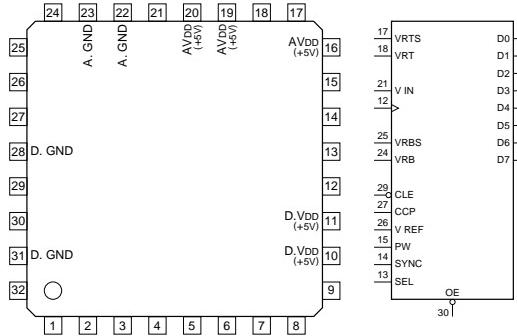
ID OUT ; KILLER ID DISTINCTION OUTPUT
BGP OUT ; BURST GATE PULSE OUTPUT
FH CLK ; FH CLOCK OUTPUT
H S/S ; H SYNC SEP OUTPUT
FSC OUT ; NTSC/PAL
FSC CLOCK OUTPUT
VO2 ; VIDEO 2 OUTPUT
VO1 ; VIDEO 1 OUTPUT



**CXD1176Q (SONY)
CXD1176Q-T4**

C-MOS 8-BIT 20MSPS VIDEO A / D CONVERTER

—TOP VIEW—



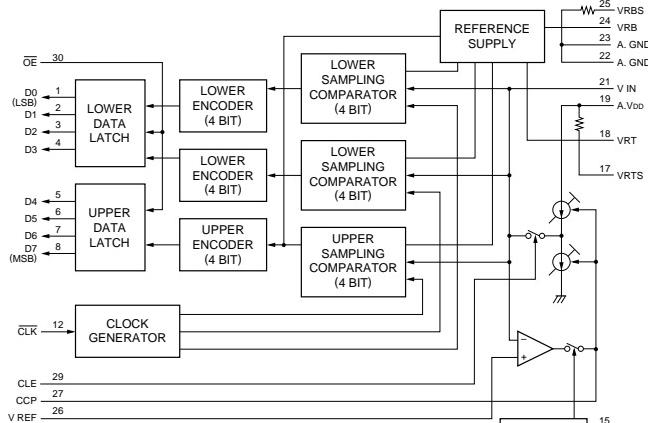
PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	D0(LSB)	17	I	VRTS
2	O	D1	18	I	VRT
3	O	D2	19	—	A.Vdd
4	O	D3	20	—	A.Vdd
5	O	D4	21	I	VIN
6	O	D5	22	—	A.GND
7	O	D6	23	—	A.GND
8	O	D7(MSB)	24	I	VRB
9	—	NC	25	I	VRBS
10	—	D.Vdd	26	I	VREF
11	—	D.Vdd	27	I	CCP
12	I	CLK	28	—	D.GND
13	I	SEL	29	I	CLE
14	I	SYNC	30	I	OE
15	I	PW	31	—	D.GND
16	—	A.Vdd	32	—	NC

INPUT

CCP	:	CLAMP CONTROL VOLTAGE FOR INTEGRATOR
CLE	:	CLAMP ENABLE
CLK	:	CLOCK
CLP	:	CLAMP PULSE
OE	:	OUTPUT ENABLE
PW	:	PULSE WIDTH FOR MONO MULTI
SEL	:	TRIGGER SELECT
SYNC	:	TRIGGER PULSE FOR MONO MULTI
VIN	:	ANALOG VIBRATOR
VRB	:	REFERENCE VOLTAGE (BOTTOM)
VRBS	:	SELF REFERENCE VOLTAGE SHORT (+0.5 V/BOTTOM)
VREF	:	VOLTAGE REFERENCE FOR CLAMP
VRT	:	REFERENCE VOLTAGE (TOP)
VRTS	:	SELF REFERENCE VOLTAGE SHORT (+2.6 V/TOP)

OUTPUT

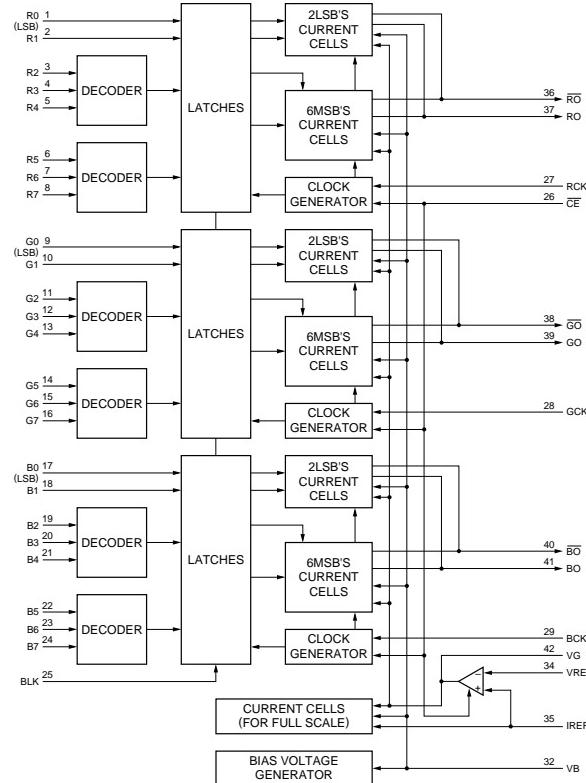
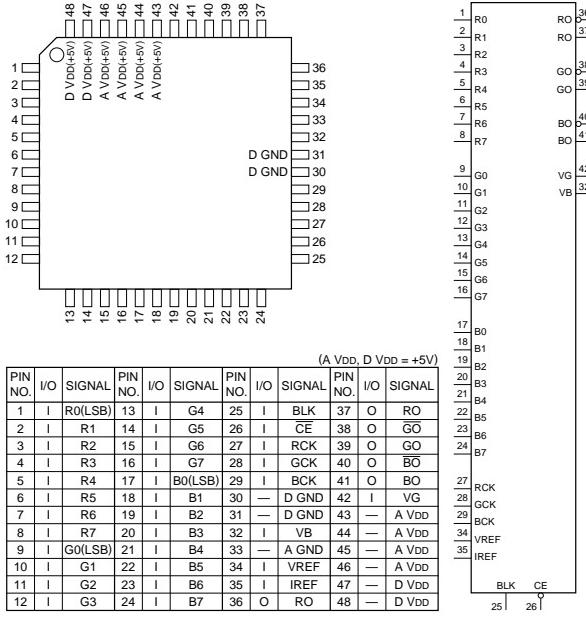
D0 - D7 : DATA



**CXD1178Q (SONY)
CXD1178Q-T6**

C-MOS 3CH 8-BIT 40MHz D / A CONVERTER

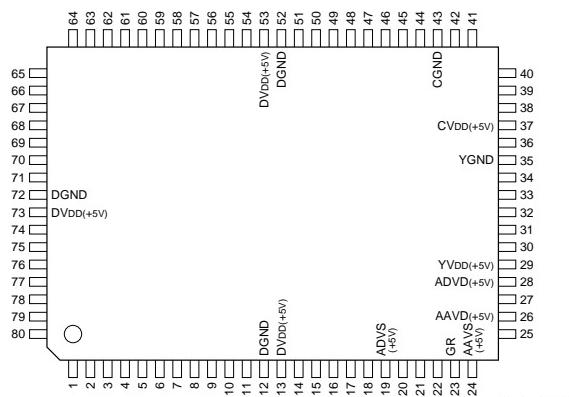
—TOP VIEW—



CXD2023Q (SONY)

C-MOS DIGITAL COMB FILTER

—TOP VIEW—

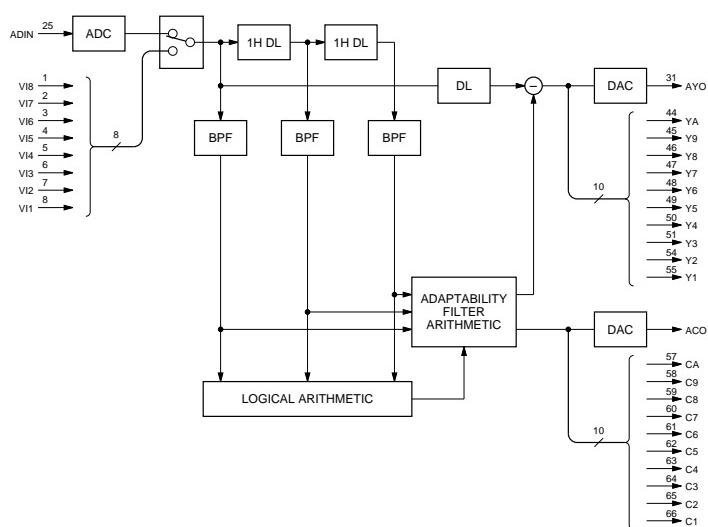


PIN No.	I/O	SIGNAL									
1	I	VI8	21	I	CRV	41	I	CVRF	61	O	C6
2	I	VI7	22	O	RB	42	O	CIRF	62	O	C5
3	I	VI6	23	—	GR	43	—	CGND	63	O	C4
4	I	VI5	24	—	AAVS	44	O	YA	64	O	C3
5	I	VI4	25	I	ADIN	45	O	Y9	65	O	C2
6	I	VI3	26	—	AAVD	46	O	Y8	66	O	C1
7	I	VI2	27	O	RT	47	O	Y7	67	I	XCOE
8	I	VI1	28	—	ADVD	48	O	Y6	68	I	APCN
9	I	ADCO	29	—	YVDD	49	O	Y5	69	I	TEST
10	I	INSL	30	O	XAYO	50	O	Y4	70	I	TEST
11	I	OCLK	31	O	AYO	51	O	Y3	71	I	TST
12	—	DGND	32	O	YVG	52	—	DGND	72	—	DGND
13	—	DVDD	33	I	YVRF	53	—	DVDD	73	—	DVDD
14	O	CLKO	34	O	YIRF	54	O	Y2	74	I	TEST
15	I	MCK	35	—	YGN	55	O	Y1	75	I	TEST
16	I	ADCK	36	O	VB	56	I	XYOE	76	I	TEST
17	I	CLPI	37	—	CVDD	57	O	CA	77	I	TEST
18	I	XCPON	38	I	XACO	58	O	C9	78	I	TEST
19	—	ADVS	39	O	ACO	59	O	C8	79	I	BPF
20	I	ICP	40	O	CVG	60	O	C7	80	I	TEST

INPUT	
ADCK	; AD CONVERTER CLOCK
ADCO	; H : AD CONVERTER
ADCO	L : USUALLY MODE
ADIN	; COMB FILTER ANALOG
APCN	; APERTURE CORRECTION
H : APERTURE EFFECT	
L : STANDARD MODE	
BPF	; H : BPF SEPARATION FIXATION
L : STANDARD MODE	
CLPI	; AD CONVERTER CLAMP PULSE
CRV	; CLAMP REFERENCE VOLTAGE
CVRF	; ANALOG CHROMA SIGNAL
ICP	; CLAMP CONTROL
INSL	; INPUT SELECT
H : DIGITAL INPUT	
L : ANALOG INPUT	
MCK	; CLOCK
OCKL	; CLOCK AMP.
TEST	; TEST
TST	; Y OUTPUT SLEW MODE
	H : COMPOSITE VIDEO SIGNAL
	L : Y/C SEPARATION MODE
VI1 - VI8	; DIGITAL INPUT
XACO	; ACO INVERT CURRENT
XCOE	; H : CLAMP FUNCTION "OFF"
XCPON	L : CLAMP FUNCTION
XCOE	; DIGITAL CHROMA SIGNAL CONTROL
C5	H : HIGH IMPEDANCE
C6	L : ENABLE
XYOE	; DIGITAL Y SIGNAL CONTROL
C7	H : HIGH IMPEDANCE
C8	L : ENABLE
YVRF	; ANALOG Y SIGNAL

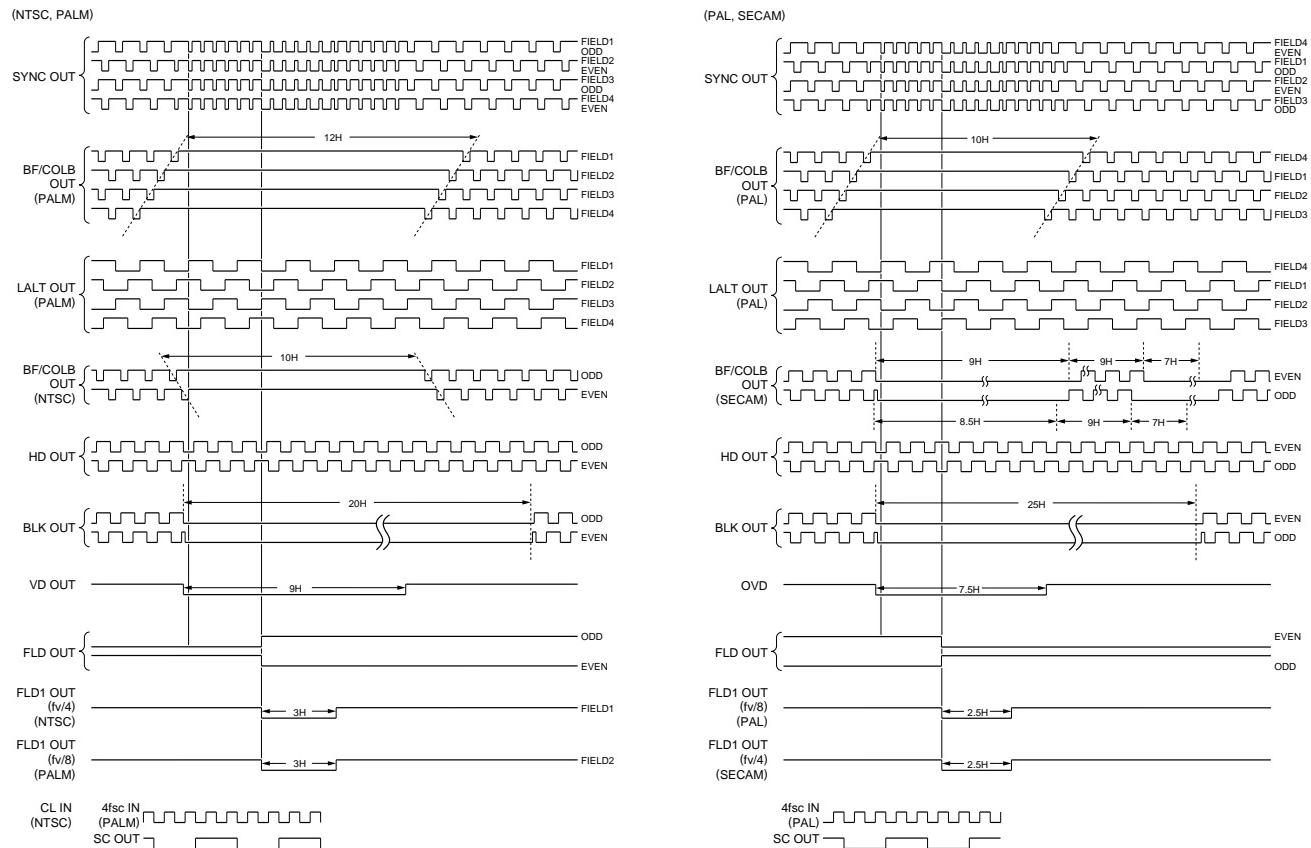
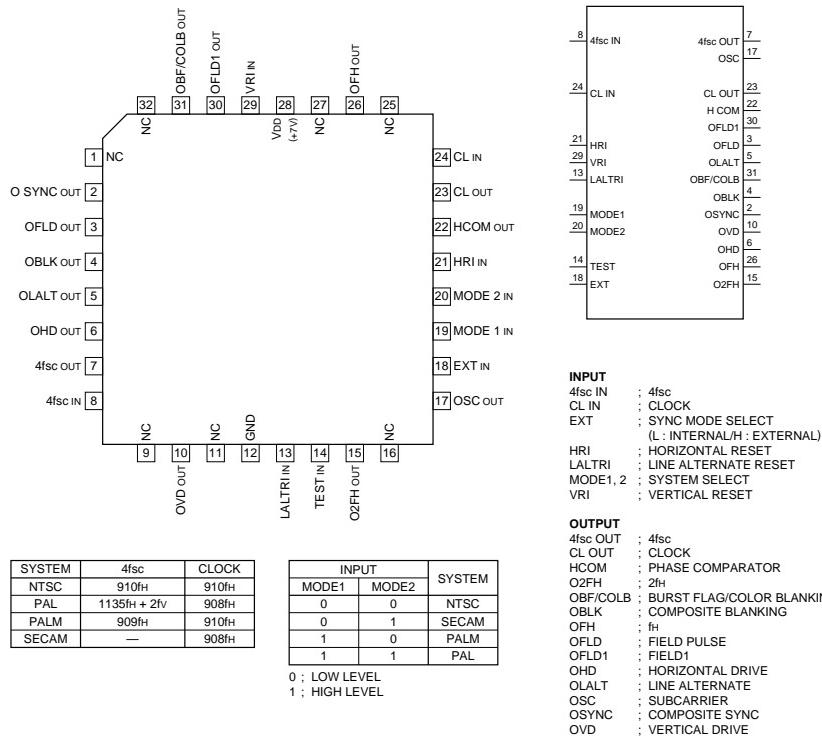
OUTPUT	
ACO	; ANALOG CHROMA SIGNAL
AYO	; ANALOG Y SIGNAL
CA, C1 - C9	; DIGITAL CHROMA SIGNAL
CIRF	; SETTING FOR ANALOG CHROMA OUTPUT
CLKO	; CLOCK AMP.
CVG	; VOLTAGE FOR ANALOG CHROMA SIGNAL
RB	; REFERENCE VOLTAGE (BOTTOM) STANDARD (0.5V)
RT	; REFERENCE VOLTAGE (TOP) STANDARD (2.6V)
VB	; VOLTAGE BIAS
XAYO	; AYO INVERT CURRENT
YA, Y1 - Y9	; DIGITAL Y SIGNAL
YIRF	; SETTING FOR ANALOG Y OUTPUT
YVG	; VOLTAGE FOR ANALOG Y SIGNAL

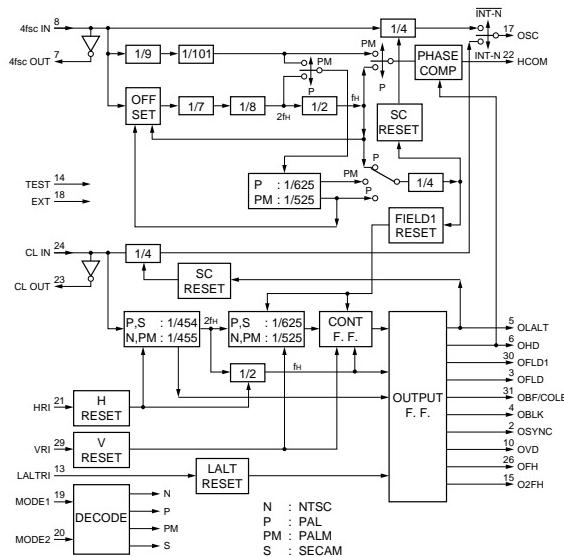
OTHER	
AAVD	; AD CONVERTER ANALOG POWER
AAVS	; AD CONVERTER ANALOG GND
ADVS	; AD CONVERTER DIGITAL GND
ADVD	; AD CONVERTER DIGITAL POWER
GR	; GARD RING
CVSS	; C/DA CONVERTER GND
CVDD	; C/DA CONVERTER POWER
YVDD	; Y/DA CONVERTER POWER
YVSS	; Y/DA CONVERTER ANALOG GND



CXD1217Q (SONY)
CXD1217Q-T4

C-MOS SYNC GENERATOR
—TOP VIEW—

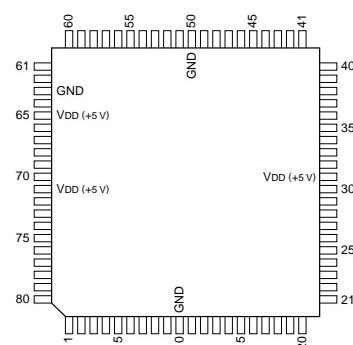




CXD8636Q (SONY)

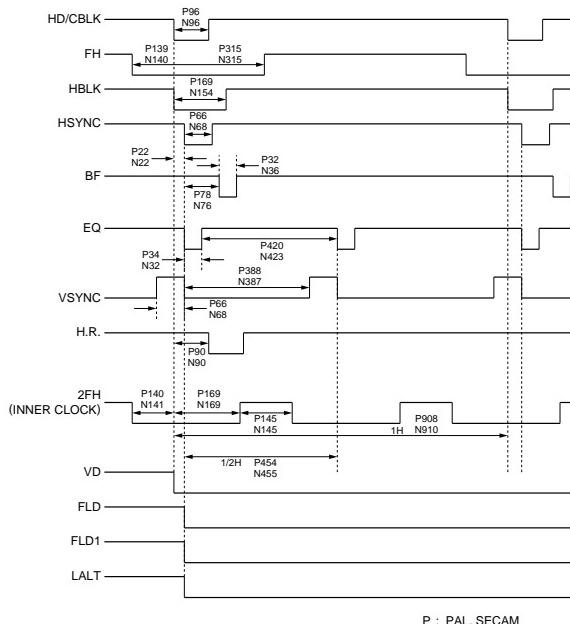
C-MOS GATE ARRAY

TOP VIEW



(VDD = +5 V)

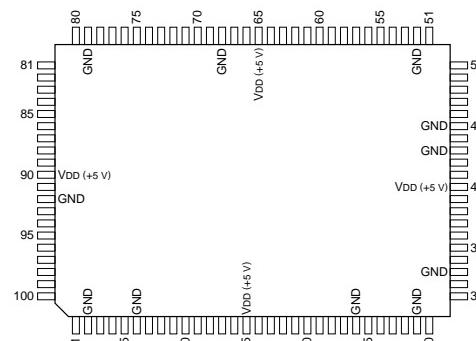
PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL
1	I	TSTSEL	17	O	TSTCOMP45	33	O	TDATA9	49	I	DCLK
2	I	TSTLOAD	18	O	TSTCOMP46	34	O	TDATA10	50	—	GND
3	O	NHEADACTIVE	19	O	TSTCOMP47	35	O	TDATA11	51	I	NDMAON
4	O	PRINTPULSE	20	O	TDATA12	36	O	TDATA12	52	O	NDMAREQ
5	I	PORTEENABLE1	21	O	HDDATA1	37	O	TDATA13	53	O	TDATA14
6	I	PORTEENABLE2	22	O	HDDATA2	38	I	NRRESET	54	O	TDATA15
7	I	PORTEENABLE2	23	O	HDDATA3	39	I	NHEADACTIVE	55	I	TADD2
8	I	PRINTTYPE0	24	O	HDDATA4	40	I	PRINTPULSE	56	I	TADD3
9	I	PRINTYPE1	25	O	HDDATA5	41	I	DATA7	57	O	NUMBER1
10	—	GND	26	O	HDDATA6	42	I	DATA6	58	I	NHEADACTIVE
11	I	TESTSEL	27	O	HDDATA7	43	I	DATA5	59	I	TADD4
12	O	TSTCOMP48	28	O	HDDATA8	44	I	DATA4	60	I	TADD5
13	O	TSTCOMP49	29	O	NHDLATCH	45	I	DATA3	61	I	TADD6
14	O	TSTCOMP42	30	O	HDCLK	46	I	DATA2	62	I	CLK1S4
15	O	TSTCOMP43	31	—	VDD	47	I	DATA1	63	—	GND
16	O	TSTCOMP44	32	O	NHDSTB	48	I	DATA0	64	I	CLK



CXD8653Q (SONY)

C-MOS PICTURE QUALITY CONTROL

TOP VIEW



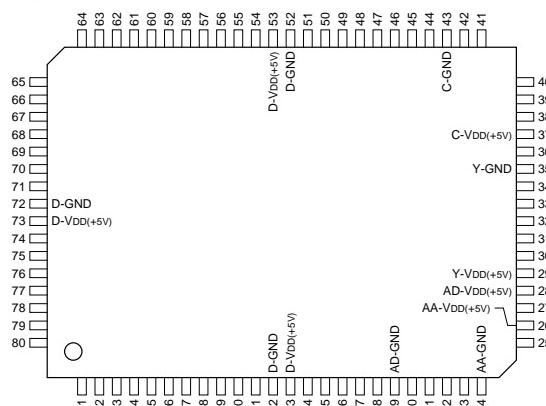
(VDD = +5 V)

PIN No.	I/O	SIGNAL									
1	I	NRES	21	I/O	DB5	41	O	PD1	61	O	STS8
2	—	GND	22	I/O	DB6	42	O	PD0	62	O	STS9
3	I	NCS	23	I/O	DB7	43	—	GND	63	O	STS10
4	I	NRD	24	—	GND	44	O	PDCK	64	O	STS11
5	I	NWR	25	I	NHAIN	45	—	GND	65	—	Vdd
6	—	GND	26	I	PPIN	46	O	PDACT	66	O	XO
7	I	ADB3	27	O	STS0	47	I	PDREQ	67	I	XI
8	I	ADB1	28	O	STS1	48	I	TIN1	68	—	GND
9	I	ADB2	29	—	GND	49	I	TIN2	69	O	STS12
10	I	ADB3	30	I	TIN0	50	I	TIN3	70	O	STS13
11	I	ADB4	31	O	PPOUT	51	I	TIN4	71	O	STS14
12	I	ADB5	32	O	NHAOUT	52	—	GND	72	O	STS15
13	I	ADB6	33	—	GND	53	I	TIN5	73	O	STS16
14	I	ADB7	34	O	PD7	54	I	TIN6	74	O	STS17
15	—	VDD	35	O	PD6	55	O	STS2	75	O	STS18
16	I/O	DB0	36	O	PD5	56	O	STS3	76	I	HNUM0
17	I/O	DB1	37	O	PD4	57	O	STS4	77	I	HNUM1
18	I/O	DB2	38	O	PD3	58	O	STS5	78	I	TIN7
19	I/O	DB3	39	O	PD2	59	O	STS6	79	—	GND
20	I/O	DB4	40	—	VDD	60	O	STS7	80	I	TIN8
									100	I	TIN14

CXD2024AQ (SONY)

C-MOS DIGITAL COMB FILTER (NTSC/PAL)

—TOP VIEW—



(VDD = +5V)								
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	V18	21	I	CRV	41	I	CVRF
2	I	V17	22	O	RB	42	O	CIRF
3	I	V16	23	—	GR	43	—	C-GND
4	I	V15	24	—	AA-GND	44	O	YA
5	I	V14	25	I	ADIN	45	O	Y9
6	I	V13	26	—	AA-Vdd	46	O	Y8
7	I	V12	27	O	RT	47	O	Y7
8	I	V11	28	—	AD-Vdd	48	O	Y6
9	I	ADCO	29	—	Y-Vdd	49	O	Y5
10	I	INSL	30	I	XYAO	50	O	Y4
11	I	OCLK	31	O	AYO	51	O	Y3
12	—	D-GND	32	O	YVG	52	—	D-GND
13	—	D-Vdd	33	I	YVRF	53	—	D-Vdd
14	O	CLK0	34	O	YIRF	54	O	Y2
15	I	MCK	35	—	Y-GND	55	O	Y1
16	I	ADCK	36	O	VB	56	I	XYOE
17	I	CLPI	37	—	C-Vdd	57	O	CA
18	I	XCPON	38	I	XACO	58	O	C9
19	—	AD-GND	39	O	ACO	59	O	C8
20	I	ICP	40	O	CVG	60	O	C7

INPUT

ADCK	: CLOCK FOR A/D CONVERTER
ADCO	: A/D CONVERTER OUTPUT SELECT (H : DIGITAL OUTPUT MODE, L : STANDARD MODE)
ADIN	: COMB FILTER ANALOG DATA
APCN	: APERTURE COMPENSATION (H : FREQUENCY RESPONSE DEGRADATION COMPENSATE BY APERTURE EFFECT, L : STANDARD)
BPF	: Y/C SEPARATE PROCESS MODE SETTING (H : BPF SEPARATE MODE, L : ADAPTABILITY PROCESS MODE)
CLPI	: CLAMP PULSE FOR A/D CONVERTER
CRV	: CLAMP REFERENCE VOLTAGE
CVRF	: FULL SCALE VALUE SETTING OF ANALOG CHROMA SIGNAL
ICP	: VOLTAGE INTERGRATION FOR CLAMP CONTROL
INSL	: INPUT DATA SELECT OF COMB FILTER (H : DIGITAL INPUT, L : ANALOG INPUT)
MCK	: MASTER CLOCK
NTPL	: NTSC/PAL MODE SETTING (H : PAL, L : NTSC)
OCLK	: CLOCK AMPLIFIER
PNR	: DOT INTERFERENCE (PAL H : MINIMUM, L : BEFORE IMPROVEMENT NTSC : L FIXED)
RATI	: RATIO SETTING (H : PAL (WHEN THE PNR IS ON, SET TO L FORCED), L : NTSC)
TEST	: TEST (NORMAL : L FIXED)
TST	: Y OUTPUT THROUGH MODE (H : COMPOSITE VIDEO SIGNAL (TO AYO, YA-Y1) AND Y/C SEPARATED CHROMA SIGNAL (TO ACO, CA-C1), L : Y-C SEPARATION MODE)
VI1 - VI8	: DIGITAL INPUT DATA
XACO	: ANALOG CHROMA SIGNAL REVERSE CURRENT (CONNECTED TO C-GND)
XYAO	: ANALOG Y SIGNAL REVERSE CURRENT (CONNECTED TO Y-GND)
XCOE	: DIGITAL CHROMA SIGNAL OUTPUT CONTROL (H : HIGH IMPEDANCE, L : STANDARD OUTPUT)
XCPON	: CLAMP SETTING FOR A/D CONVERTER (H : A/D CONVERTER CAPABILITY, L : CLAMP CAPABILITY)
XYOE	: DIGITAL Y SIGNAL OUTPUT CONTROL (H : HIGH IMPEDANCE, L : STANDARD OUTPUT)
YVRF	: FULL SCALE VALUE SETTING OF ANALOG Y SIGNAL

OUTPUT

ACO	: ANALOG CHROMA SIGNAL
AYO	: ANALOG Y SIGNAL
C1 - C9	: DIGITAL CHROMA SIGNAL
CA	: DIGITAL CHROMA SIGNAL
CIRF	: EXTERNAL RESISTOR CONNECTION
CLK0	: CLOCK AMPLIFIER
CVG	: EXTERNAL CAPACITOR CONNECTION
RB	: STANDARD VALUE (+0.5V) OF REFERENCE VOLTAGE (BOTTOM)
RT	: STANDARD VALUE (+2.6V) OF REFERENCE VOLTAGE (TOP)
VB	: EXTERNAL CAPACITOR
Y1 - Y9	: DIGITAL Y SIGNAL
YA	: DIGITAL Y SIGNAL
YIRF	: EXTERNAL RESISTOR CONNECTION
YVG	: EXTERNAL CAPACITOR CONNECTION

Vdd (SUPPLY VOLTAGE = +5V)

AA-Vdd : ANALOG SUPPLY VOLTAGE FOR A/D CONVERTER

AD-Vdd : DIGITAL SUPPLY VOLTAGE FOR A/D CONVERTER

C-Vdd : ANALOG SUPPLY VOLTAGE FOR D/A CONVERTER (CHROMA)

D-Vdd : DIGITAL SUPPLY VOLTAGE

Y-Vdd : ANALOG SUPPLY VOLTAGE FOR D/A CONVERTER (Y)

GND

AA-GND : ANALOG GND FOR A/D CONVERTER

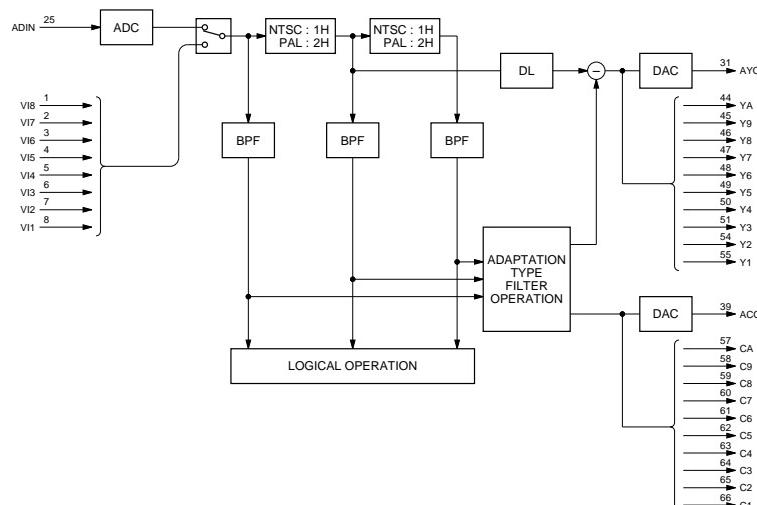
AD-GND : DIGITAL GND FOR A/D CONVERTER

C-GND : ANALOG GND FOR D/A CONVERTER (CHROMA)

D-GND : DIGITAL GND

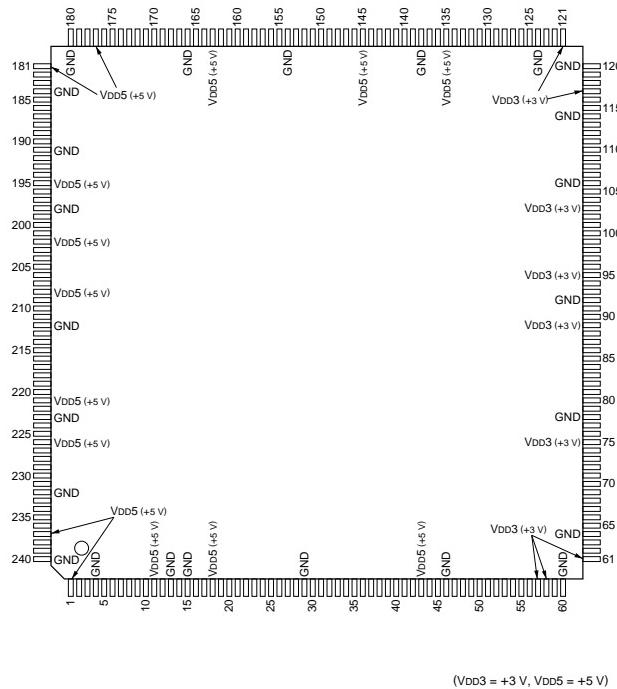
GR : GARD RING (CONNECTED TO AA-GND)

Y-GND : ANALOG GND FOR D/A CONVERTER (Y)



CXD8665Q (SONY)

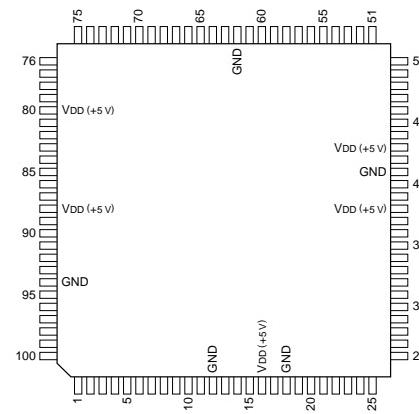
C-MOS DYNAMIC RAM CONTROL —TOP VIEW—



(VDD = +3.3 V, VDDQ = +3.3 V)									
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.
1	—	Vdd5	49	O	DRAMADR2	97	I/O	GDRAMD1	145
2	I	RIN6	50	O	DRAMADR3	98	I/O	GDRAMD2	146
3	I	RIN7	51	O	DRAMADR4	99	I/O	GDRAMD3	147
4	—	GND	52	O	DRAMADR5	100	I/O	GDRAMD4	148
5	I	RES	53	O	DRAMADR6	101	I/O	GDRAMD5	149
6	I	TEST	54	O	DRAMADR7	102	I/O	GDRAMD6	150
7	I	VD	55	O	DRAMADR8	103	—	Vdd3	151
8	I	HD	56	O	DRAMADR9	104	I/O	GDRAMD7	152
9	I	VBLNKV	57	—	Vdd3	105	I/O	GDRAMD8	153
10	I	VBLNKR	58	—	Vdd3	106	—	GND	154
11	—	Vdd5	59	O	DRAMACMS	107	I/O	GDRAMD9	155
12	I	CLK	60	—	GND	108	I/O	GDRAMD10	156
13	—	GND	61	—	Vdd3	109	I/O	GDRAMD11	157
14	I	HCLK	62	O	DRAMAS01	110	I/O	GDRAMD12	158
15	—	GND	63	O	DRAMAS23	111	I/O	GDRAMD13	159
16	I	RDn	64	—	GND	112	I/O	GDRAMD14	160
17	I	WRn	65	O	DRAMAS45	113	I/O	GDRAMD15	161
18	—	Vdd5	66	O	DRAMAS67	114	—	GND	162
19	I	CS0n	67	O	DRAMAS0	115	I/O	BDRAMD0	163
20	I	CS1n	68	O	DRAMAS1	116	I/O	BDRAMD1	164
21	I	CS2	69	O	DRAMAS2	117	—	Vdd3	165
22	I	CS3	70	O	DRAMAS3	118	I/O	BDRAMD2	166
23	I	ADR0	71	O	DRAMAS4	119	I/O	BDRAMD3	167
24	I	ADR1	72	O	DRAMAS5	120	—	GND	168
25	I	ADR2	73	O	DRAMAS6	121	—	Vdd3	169
26	I	ADR3	74	O	DRAMAS7	122	I/O	BDRAMD4	170
27	I	ADR4	75	—	Vdd3	123	I/O	BDRAMD5	171
28	I	ADR5	76	I/O	RDRAMD0	124	—	GND	172
29	—	GND	77	I/O	RDRAMD1	125	I/O	BDRAMD6	173
30	I/O	D0	78	—	GND	126	I/O	BDRAMD7	174
31	I/O	D1	79	I/O	RDRAMD2	127	I/O	BDRAMD8	175
32	I/O	D2	80	I/O	RDRAMD3	128	I/O	BDRAMD9	176
33	I/O	D3	81	I/O	RDRAMD4	129	I/O	BDRAMD10	177
34	I/O	D4	82	I/O	RDRAMD5	130	I/O	BDRAMD11	178
35	I/O	D5	83	I/O	RDRAMD6	131	I/O	BDRAMD12	179
36	I/O	D6	84	I/O	RDRAMD7	132	I/O	BDRAMD13	180
37	I/O	D7	85	I/O	RDRAMD8	133	I/O	BDRAMD14	181
38	I	SRCSMEM0	86	I/O	RDRAMD9	134	I/O	BDRAMD15	182
39	I	FTCHMON	87	I/O	RDRAMD10	135	—	Vdd5	183
40	I	RATRG	88	I/O	RDRAMD11	136	I/O	PRTD0	184
41	I	PDREQ	89	—	Vdd3	137	I/O	PRTD1	185
42	I	TRG4IN1	90	I/O	RDRAMD12	138	—	GND	186
43	—	Vdd5	91	I/O	RDRAMD13	139	I/O	PRTD2	187
44	O	DRAMOEN	92	—	GND	140	O	PRTD3	188
45	O	DRAMWEN	93	I/O	RDRAMD14	141	O	PRTD4	189
46	—	GND	94	I/O	RDRAMD15	142	O	PRTD5	190
47	O	DRAMADR05	95	—	Vdd3	143	O	PRTD6	191
48	O	DRAMADR1	96	I/O	GDRAMD0	144	I/O	PRTD7	192
49	—	GND	97	—	GND	145	O	GOD0	240

CXD8865R (SONY)

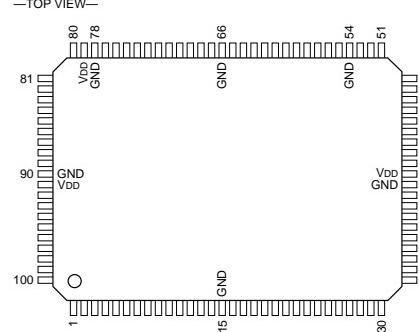
C-MOS GATE ARRAY —TOP VIEW—



(VDD = +5 V)											
PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	D46	21	I	D24	41	—	GND	61	I	A7
2	I	D45	22	I	D23	42	O	CLK2	62	—	GND
3	I	D44	23	I	D22	43	—	VDD	63	I	A6
4	I	D43	24	I	D21	44	O	CLK4	64	I	A5
5	I	D42	25	I	D20	45	I	LINN	65	I	A4
6	I	D41	26	I	HEADACTN	46	I	ONNOFF	66	I	A3
7	I	D40	27	I	PRINTPLS	47	I	S2	67	I	A2
8	I	D36	28	I	D16	48	I	S1	68	I	A1
9	I	D35	29	I	D15	49	I	S0	69	I	A0
10	I	D34	30	I	D14	50	I	REN	70	I	RESETN
11	I	D33	31	I	D13	51	I	WEN	71	O	OUT7
12	—	GND	32	I	D12	52	I/O	D7	72	O	OUT6
13	I	D32	33	I	D11	53	I/O	D6	73	O	OUT5
14	I	D31	34	I	D10	54	I/O	D5	74	O	OUT4
15	I	D30	35	I	LATCHN	55	I/O	D4	75	O	OUT3
16	—	Vdd	36	O	TEST7	56	I/O	D3	76	O	OUT2
17	O	STBN	37	O	TEST8	57	I/O	D2	77	O	OUT1
18	—	GND	38	—	Vdd	58	I/O	D1	78	O	OUT0
19	I	D26	39	O	TEST9	59	I/O	D0	79	O	XTALM
20	I	D25	40	O	CLK	60	I	A8	80	—	Vdd
									100	O	RSTNOUT

CXD8868Q (SONY)

SEMI CUSTOM LS



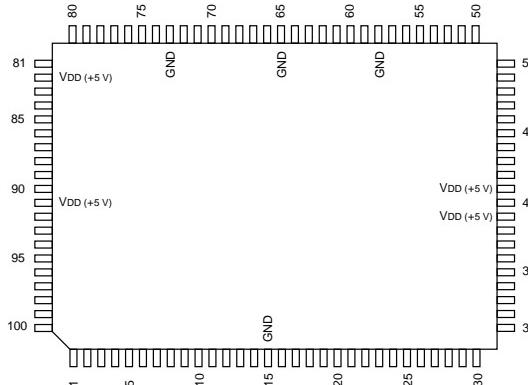
(VDD = +5 V)

PIN No.	SIGNAL								
1	CKPB	21	IOB5	41	Vdd	61	IOA18	81	IOC11
2	CKPC	22	IOB6	42	IOA0	62	IOA19	82	IOC12
3	CKA	23	IOB7	43	IOA1	63	IOA20	83	IOC13
4	CKB	24	IOB8	44	IOA2	64	IOA21	84	IOC14
5	CKC	25	IOB9	45	IOA3	65	IOA22	85	IOC15
6	SEL0	26	IOB10	46	IOA4	66	GND	86	IOC16
7	SEL1	27	IOB11	47	IOA5	67	IOA23	87	IOC17
8	SEL2	28	IOB12	48	IOA6	68	IOC0	88	IOC18
9	DIR0	29	IOB13	49	IOA7	69	IOC1	89	IOC19
10	DIR1	30	IOB14	50	IOA8	70	IOC2	90	GND
11	ROT1	31	IOB15	51	IOA9	71	IOC3	91	Vdd
12	ROT2	32	IOB16	52	IOA10	72	IOC4	92	IOC20
13	A0	33	IOB17	53	IOA11	73	IOC5	93	IOC21
14	A1	34	IOB18	54	GND	74	IOC6	94	IOC22
15	GND	35	IOB19	55	IOA12	75	IOC7	95	IOC23
16	IOB0	36	IOB20	56	IOA13	76	IOC8	96	INV
17	IOB1	37	IOB21	57	IOA14	77	IOC9	97	G
18	IOB2	38	IOB22	58	IOA15	78	GND	98	CS
19	IOB3	39	IOB23	59	IOA16	79	ODD	99	FIX
20	IOB4	40	GND	60	IOA17	80	IOC10	100	CKPA

CXD8869Q (SONY)

C-MOS CELL BACE IC

—TOP VIEW—

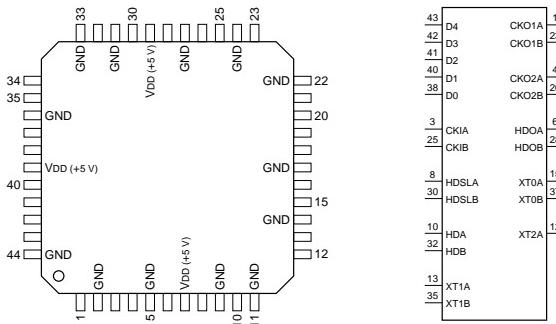


PIN NO.	I/O	SIGNAL												
1	I/O	B7	21	I/O	R4	41	—	VDD	61	I/O	OUTR6	81	I	REV
2	I/O	B6	22	I/O	R3	42	I	A3	62	I/O	OUTR7	82	—	VDD
3	I/O	B5	23	I/O	R2	43	I	A4	63	I/O	OUTG0	83	O	OUTPS0
4	I/O	B4	24	I/O	R1	44	I	A5	64	I/O	OUTG1	84	O	OUTPS1
5	I/O	B3	25	I/O	R0	45	I	A6	65	—	GND	85	O	OUTPS2
6	I/O	B2	26	I	RDN	46	I	A7	66	I/O	OUTG2	86	O	OUTPS3
7	I/O	B1	27	I	WRN	47	I	A8	67	I/O	OUTG3	87	O	OUTPS4
8	I/O	B0	28	I/O	D7	48	I	A9	68	I/O	OUTG4	88	O	OUTPS5
9	I/O	G7	29	I/O	D6	49	I	A10	69	I/O	OUTG5	89	O	OUTPS6
10	I/O	G6	30	I/O	D5	50	I	CS1N	70	I/O	OUTG6	90	O	OUTPS7
11	I/O	G5	31	I/O	D4	51	I	CS2N	71	I/O	OUTG7	91	—	VDD
12	I/O	G4	32	I/O	D3	52	I	CS3	72	I/O	OUTB0	92	I	CLKL
13	I/O	G3	33	I/O	D2	53	I	CS4	73	—	GND	93	I	TEST
14	I/O	G2	34	I/O	D1	54	I/O	OUTR0	74	I/O	OUTB1	94	O	Y6N
15	—	GND	35	I/O	D0	55	I/O	OUTR1	75	I/O	OUTB2	95	O	Y7N
16	I/O	G1	36	I	A0	56	I/O	OUTR2	76	I/O	OUTB3	96	I	BE0
17	I/O	G0	37	I	A1	57	I/O	OUTR3	77	I/O	OUTB4	97	I	BE1
18	I/O	R7	38	I	A2	58	—	GND	78	I/O	OUTB5	98	I	BE2
19	I/O	R6	39	—	VDD	59	I/O	OUTR4	79	I/O	OUTB6	99	I	CLK1
20	I/O	R5	40	I	RESETN	60	I/O	OUTR5	80	I/O	OUTB7	100	O	OE1N

CXD8932Q (SONY)

C-MOS GATE ARRAY

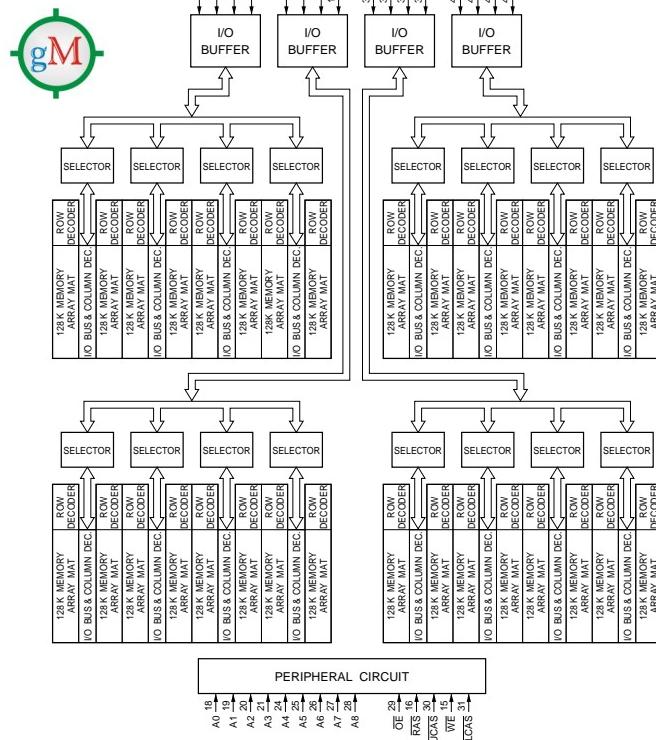
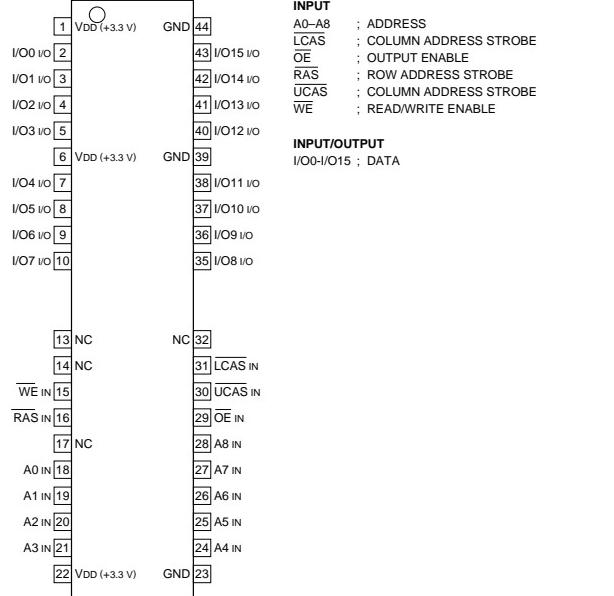
—TOP VIEW—



HM51W4265CLTT-6 (HITACHI)

C-MOS 4 M (262,144 W × 16)-BIT DYNAMIC RAM

—TOP VIEW—

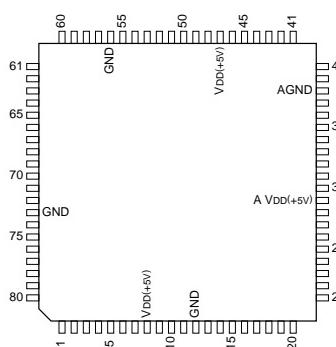


PERIPHERAL CIRCUIT

HD6413378F10 (HITACHI)

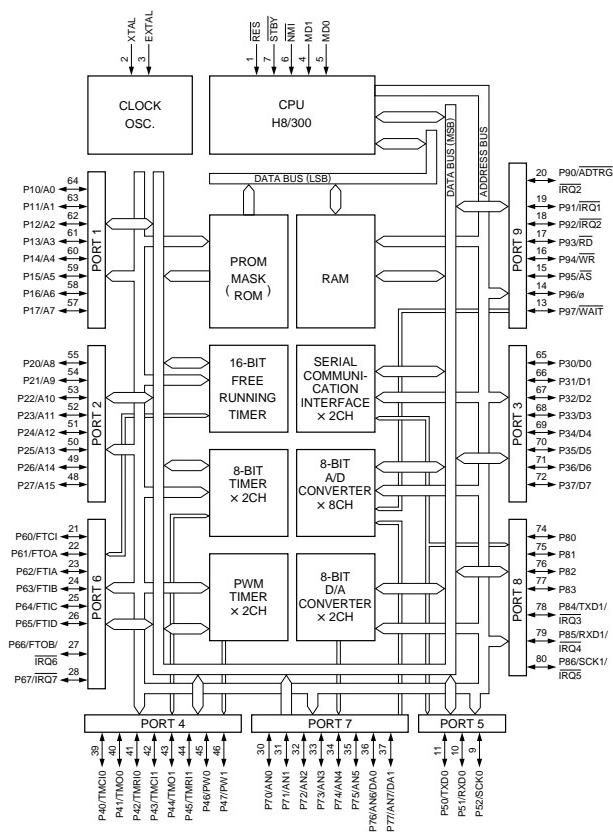
C-MOS 8-BIT SIGNAL CHIP MICRO COMPUTER

—TOP VIEW—



PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	I	RES	21	I/O	P60/FTCI	41	I/O	P42/TMR10	61	I/O	P13/A3
2	I	XTAL	22	I/O	P61/FTOA	42	I/O	P43/TMC11	62	I/O	P12/A2
3	I	EXTAL	23	I/O	P62/FTIA	43	I/O	P44/TMR11	63	I/O	P11/A1
4	I	MD1	24	I/O	P63/FTIB	44	I/O	P45/TMR11	64	I/O	P10/A0
5	I	MDO	25	I/O	P64/FTIC	45	I/O	P46/PW0	65	I/O	P30/D0
6	I	NMI	26	I/O	P65/FTID	46	I/O	P47/PW1	66	I/O	P31/D1
7	I	STBY	27	I/O	P66/FTOB/IRQ6	47	—	VDD	67	I/O	P32/D2
8	—	VDD	28	I/O	P67/IRQ7	48	I/O	P27/A15	68	I/O	P33/D3
9	I/O	P52/SCK0	29	—	AVDD	49	I/O	P26/A14	69	I/O	P34/D4
10	I/O	P51/RXD0	30	I/O	P70/AN0	50	I/O	P25/A13	70	I/O	P35/D5
11	I/O	P50/TXD0	31	I/O	P71/AN1	51	I/O	P24/A12	71	I/O	P36/D6
12	—	GND	32	I	P72/A22	52	I/O	P23/A11	72	I/O	P37/D7
13	I/O	P97/WAIT	33	I	P73/A3	53	I/O	P22/A10	73	—	GND
14	I/O	P96/e	34	I	P74/AN4	54	I/O	P21/A9	74	I/O	P80
15	I/O	P95/AS	35	I	P75/AN5	55	I/O	P20/A8	75	I/O	P81
16	I/O	P94/WR	36	I	P76/AN6/DA0	56	—	GND	76	I/O	P82
17	I/O	P93/RD	37	I	P77/AN7/DA1	57	I/O	P17/A7	77	I/O	P83
18	I/O	P92/IRQ2	38	—	AGND	58	I/O	P16/A6	78	I/O	P84/TXD1/IRQ3
19	I/O	P91/IRQ1	39	I/O	P40/TMC10	59	I/O	P15/A5	79	I/O	P85/RXD1/IRQ4
20	I/O	P90/ADTRG/IRQ2	40	I/O	P41/TMO0	60	I/O	P14/A4	80	I/O	P86/SCK1/IRQ5

INPUT			
P10/A0	P60/FTCI	21	A/D CONVERTER EXTERNAL TRIGGER
P11/A1	P61/FTOA	22	AN0 - AN7 ANALOG
P12/A2	P62/FTIA	23	EXTAL CRYSTAL OSCILLATOR
P13/A3	P63/FTIB	24	FRT COUNTER CLOCK
P14/A4	P64/FTIC	25	FTIA-FTID FRT INPUT CAPTURE
P15/A5	P65/FTID	26	IRQ0 - IRQ7 INTERRUPT REQUEST
P16/A6	P66/FTOB/IRQ6	27	MDO, MD1 MODE
P17/A7	P67/IRQ7	28	NMI NON-MASKABLE INTERRUPT
		29	P70 - P77 PORT 7
		30	RES RESET
		31	RXD0, RXD1 RECEIVE DATA
		32	STBY STANDBY
		33	TMC10, TMC11 8-BIT TIMER CLOCK
		34	TMR10, TMR11 8-BIT TIMER COUNTER RESET
		35	WAIT WAIT
		36	XTAL CRYSTAL OSCILLATOR
		37	φ SYSTEM CLOCK
OUTPUT			
P30/D0	P80	74	A0 - A15 ADDRESS BUS
P31/D1	P81	75	AS ADDRESS STROBE
P32/D2	P82	76	DA0, DA1 ANALOG
P33/D3	P83	77	FTOA, FTOB FRT OUTPUT COMPERE
P34/D4	P84/TXD1/IRQ3	78	PW0, PW1 PWM TIMER
P35/D5	P85/XD1/IRQ4	79	RD READ
P36/D6	P86/SCK1/IRQ5	80	TMO0, TMO1 8-BIT TIMER
P37/D7	P90/ADTRG/IRQ2	20	TXD0, TXD1 TRANSCIEVER DATA
	P91/IRQ1	19	WR WRITE
INPUT/OUTPUT			
P40/TMC10	P92/IRQ2	18	D0 - D7 DATA BUS
P41/TMO0	P93/IRD	17	P10 - P17 PORT 1
P42/TMR10	P94/WR	16	P20VP27 PORT 2
P43/TMR11	P95/AS	15	P30 - P37 PORT 3
P44/TMR10	P96/e	14	P40 - P47 PORT 4
P45/TMR11	P97/WAIT	13	P50 - P52 PORT 5
			P60 - P67 PORT 6
			P80 - P86 PORT 8
			P90 - P97 PORT 9
			SCK0, SCK1 SERIAL CLOCK
RES		1	
NMI		6	
STBY		7	
MD1		4	
MD0		5	
XTAL		2	
EXTAL		3	



DS1000Z-50 (DALLAS SEMICONDUCTOR)

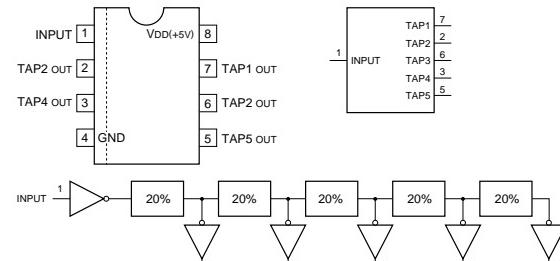
DS1000Z-50(TE2)

DS1000Z-75

DS1000Z-75(TE2) (DALLAS SEMICONDUCTOR)

C-MOS DELAY LINE

—TOP VIEW—

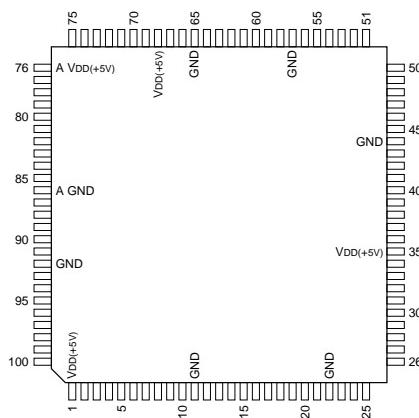


TYPE. NO.	DELAY TIME (ns)				
	TAP1	TAP2	TAP3	TAP4	TAP5
DS1000M-50	10	20	30	40	50
DS1000M-60	12	24	36	48	60
DS1000M-75	15	30	45	60	75
DS1000M-100	20	40	60	80	100
DS1000M-125	25	50	75	100	125
DS1000M-150	30	60	90	120	150
DS1000M-175	35	70	105	140	175
DS1000M-200	40	80	120	160	200
DS1000M-250	50	100	150	200	250
DS1000M-500	100	200	300	400	500
DS1000Z-25	5	10	15	20	25
DS1000Z-100	20	40	60	80	100

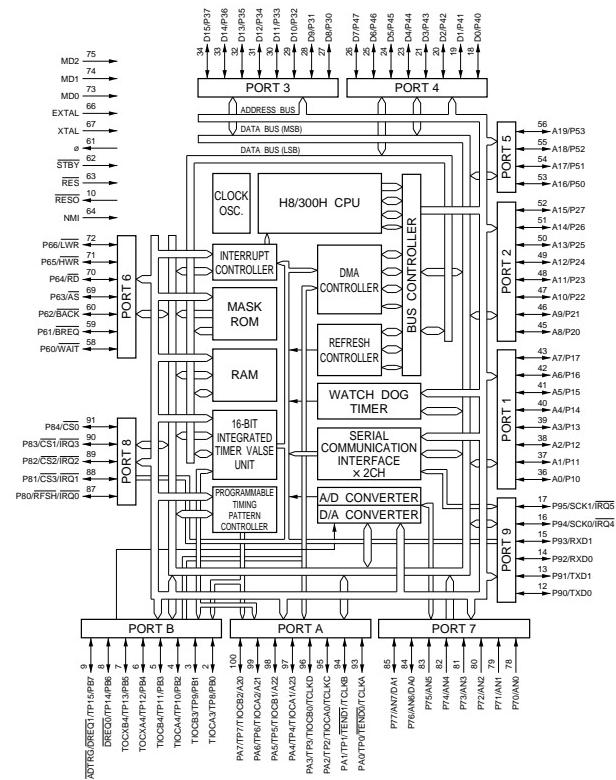
HD6433040S-A00F (HITACHI)

C-MOS 16-BIT MICRO PROCESSOR

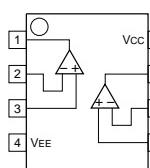
—TOP VIEW—



PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL	PIN No.	I/O	SIGNAL
1	—	Vdd	26	I/O	P47/D7	51	I/O	P26/A14	76	—	A VDD
2	I/O	PB0/TIOCA3/TP8	27	I/O	P30/D8	52	I/O	P27/A15	77	I	VREF
3	I/O	PB1/TIOCB3/TP9	28	I/O	P31/D9	56	I/O	P50/A16	78	I	P70/AN0
4	I/O	PB2/TIOCA4/TP10	29	I/O	P32/D10	54	I/O	P51/A17	79	I	P71/AN1
5	I/O	PB3/TIOCB4/TP11	30	I/O	P33/D11	55	I/O	P52/A18	80	I	P72/AN2
6	I/O	PB4/TIOXA4/TP12	31	I/O	P34/D12	56	I/O	P53/A19	81	I	P73/AN3
7	I/O	PB5/TIOXB4/TP13	32	I/O	P35/D13	57	—	GND	82	I	P74/AN4
8	I/O	PB6/TREQ0/TP14	33	I/O	P36/D14	58	I/O	P60/WAIT	83	I	P75/AN5
9	I/O	PB7/ADTRG0/TP15	34	I/O	P37/D15	59	I/O	P61/BREQ	84	I/O	P76/AN6/DA0
10	I/O	RES0	35	—	Vdd	60	I/O	P62/BACK	85	I/O	P77/AN7/DA1
11	—	GND	36	I/O	P10/A0	61	O	Ø	86	—	A GND
12	I/O	P90/TX0D0	37	I/O	P11/A1	62	I	STBY	87	I/O	P80/RFSH/RQ0
13	I/O	P91/TX0D1	38	I/O	P12/A2	63	I	RES	88	I/O	P81/C53/RAS/IR01
14	I/O	P92/RX0D0	39	I/O	P13/A3	64	I	NMI	89	I/O	P82/C52/IR02
15	I/O	P93/RX0D1	40	I/O	P14/A4	65	—	GND	90	I/O	P83/C51/RQ3
16	I/O	P94/RQ4/SCK0	41	I/O	P15/A5	66	I	EXTAL	91	I/O	P84/C50
17	I/O	P95/RQ5/SCK1	42	I/O	P16/A6	67	I	XTAL	92	—	GND
18	I/O	P40/D0	43	I/O	P17/A7	68	—	VDD	93	I/O	P90/PUTER/UDTCLK
19	I/O	P41/D1	44	—	GND	69	I/O	P63/RS	94	I/O	P91/TP1/ITERND/UDTCLK
20	I/O	P42/D2	45	I/O	P20/A8	70	I/O	P64/RD	95	I/O	P92/TP2/TIOC0/UDTCLK
21	I/O	P43/D3	46	I/O	P21/A9	71	I/O	P65/HWR	96	I/O	P93/TP3/TIOC0/UDTCLK
22	—	GND	47	I/O	P22/A10	72	I/O	P66/LWR	97	I/O	P94/TP4/TIOC1/A23
23	I/O	P44/D4	48	I/O	P23/A11	73	I	MD0	98	I/O	P95/TP5/TIOC1/A22
24	I/O	P45/D5	49	I/O	P24/A12	74	I	MD1	99	I/O	P96/TP6/TIOC2/A21
25	I/O	P46/D6	50	I/O	P25/A13	75	I	MD2	100	I/O	P97/TP7/TIOC2/A20

LM358PS (TI)FLAT PACKAGE
LM358PS-E05DUAL OPERATIONAL AMPLIFIERS
(SINGLE-SUPPLY TYPE)

—TOP VIEW—

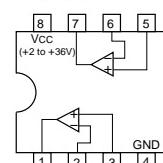


TYPE	Vcc - VEE
828 TYPE	+5 to +36V
2244 TYPE	+2.5 to +36V
2904 TYPE	+3 to +24V
3404 TYPE	+4 to +32V
3414 TYPE	+3 to +10V
4572 TYPE	+4 to +14V
5216 TYPE	+4 to +32V
7022 TYPE	+3 to +16V
75W01 TYPE	+3 to +10V
33172 TYPE	+3 to +44V
OTHERS	+3 to +36V

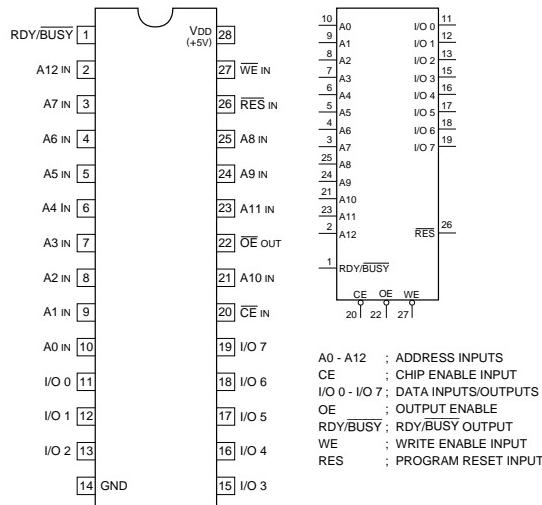
LM393PS (TI)FLAT PACKAGE
LM393PS-E05

DUAL VOLTAGE COMPARATORS

—TOP VIEW—



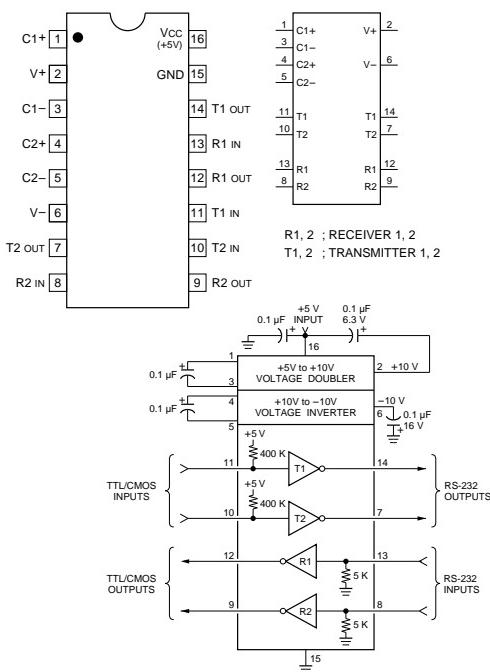
**HN58C66FP-25 (HITACHI)
HN58C66SFP-25TZ**

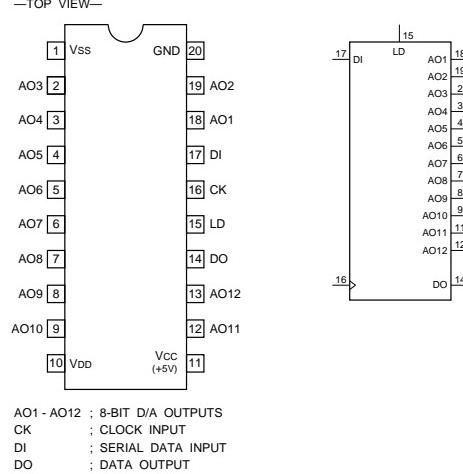
 C-MOS 64K (8192 × 8)-BIT EEPROM
 —TOP VIEW—


CE	OE	WE	RDY/BUSY	RES	I/O TERMINAL	FUNCTION
0	0	1	HI-Z	1	DOUT	READ
1	X	X	HI-Z	X	HI-Z	STANDBY
0	1	0	HI-Z-LOW	1	DIN	WRITE
0	1	1	HI-Z	1	HI-ZL	DESELECT
X	X	1	HI-Z	X	—	WRITE INH
X	0	X	HI-Z	X	—	WRITE INH
0	0	1	LOW	1	DATA OUT (I/O7)	DATA POLLING
X	X	X	HI-Z	0	HI-Z	PROGRAM RESET

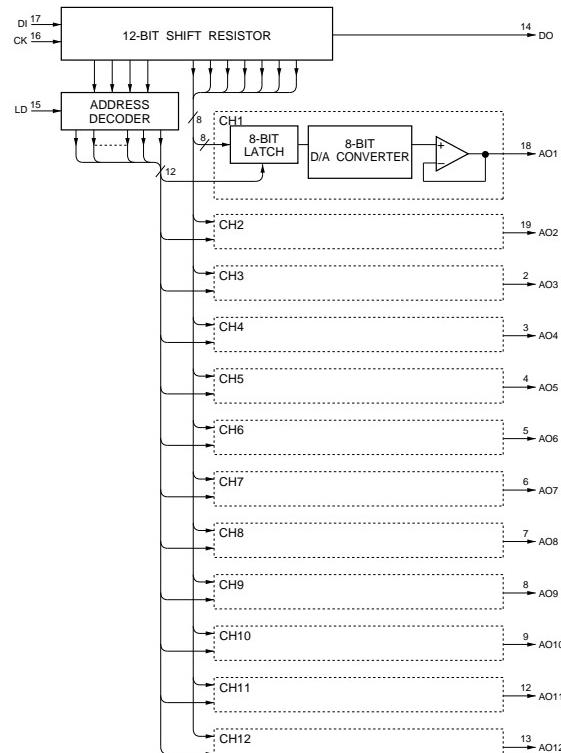
0 : LOW LEVEL
 1 : HIGH LEVEL
 X : DON'T CARE
 HI-Z : HIGH IMPEDANCE

**MAX202CSE (MAXIM)
MAX202CSE-TE2**

 RS-232 TRANSMITTER/RECEIVER
 —TOP VIEW—

**M62352GP (MITSUBISHI)FLAT PACKAGE
M62352GP-75EC**

 C-MOS 8-BIT × 12 CHANNEL D/A CONVERTER
 (WITH BUFFER OPERATIONAL AMPLIFIER)
 —TOP VIEW—

NOTE:

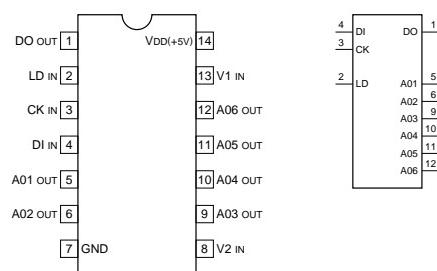
3.5 V < Vdd < Vcc
 -3.5 V < Vss < Vcc



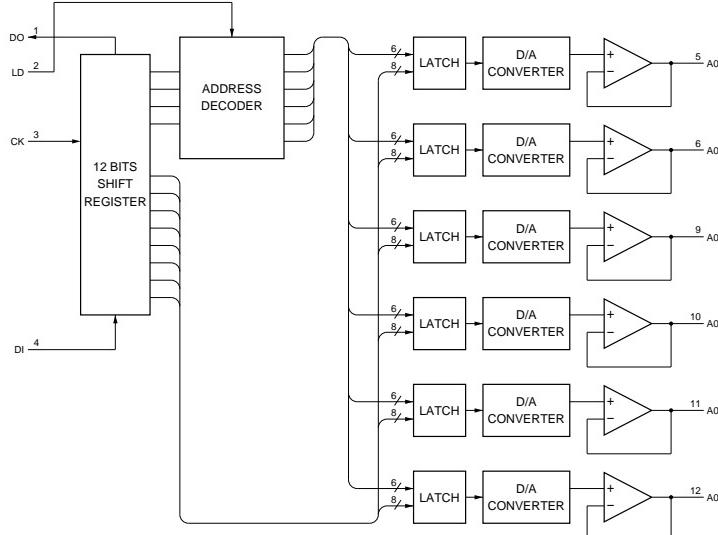
M62354FP-T1 (MITSUBISHI)

C-MOS 8 BITS 6 CHANNEL D/A CONVERTER

—TOP VIEW—



A01 - A06 : 8 BITS D/A OUTPUTS
CK : CLOCK INPUT
DI : 12 BITS SERIAL DATA INPUT
DO : BIT DATA OF MSB OF 12 BITS SHIFT REGISTER OUTPUT
LD : LOAD INPUT
V1 : REFERENCE VOLTAGE (UPPER) +3.5 to +5 (VDD) V
V2 : REFERENCE VOLTAGE (LOWER) 0 to +1.5 (Vdd-3.5) V



D0	D1	D2	D3	D4	D5	D6	D7	D/A OUTPUT
0	0	0	0	0	0	0	0	(V1-V2) / 256 x 1 + V2
1	0	0	0	0	0	0	0	(V1-V2) / 256 x 2 + V2
0	1	0	0	0	0	0	0	(V1-V2) / 256 x 3 + V2
1	1	0	0	0	0	0	0	(V1-V2) / 256 x 4 + V2
:	:	:	:	:	:	:	:	:
0	1	1	1	1	1	1	1	(V1-V2) / 256 x 255 + V2
1	1	1	1	1	1	1	1	V1

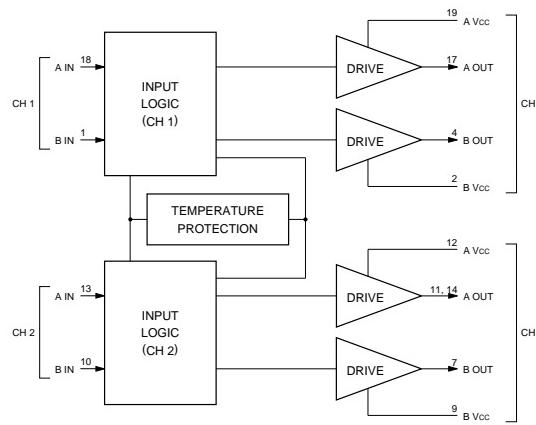
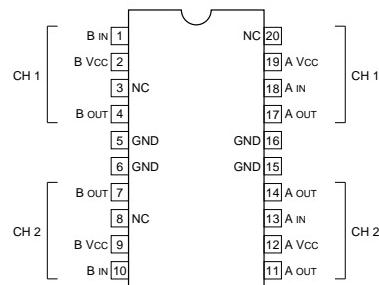
D8	D9	D10	D11	ADDRESS SELECT
0	0	0	0	X
0	0	0	1	A01
0	0	1	0	A02
0	0	1	1	A03
0	1	0	0	A04
0	1	0	1	A05
0	1	1	0	A06
0	1	1	1	X
1	X	X	X	X

0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE

MB3863PF-G-BND (FUJITSU)
MB3863PF-G-BND-ER

DUAL MODE MOTOR DRIVER

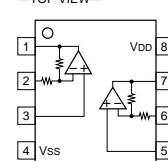
—TOP VIEW—



MC14576CFEL (MOTOROLA)FLAT PACKAGE

C-MOS DUAL VIDEO AMPLIFIERS

—TOP VIEW—

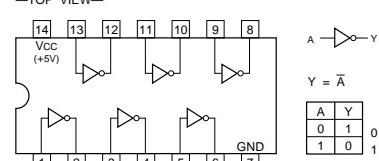


*VDD + |VSS| = +5 to +12V

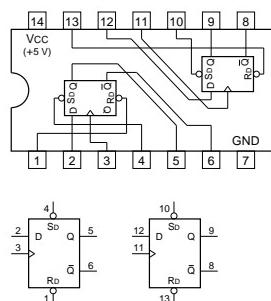
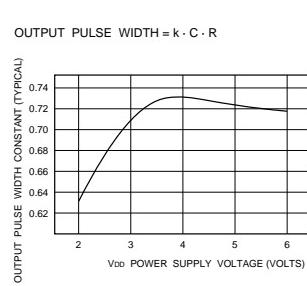
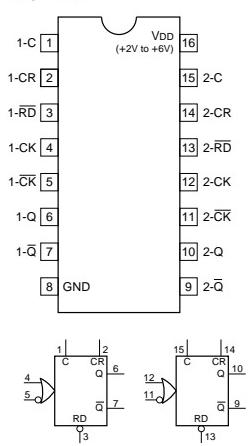
MC74F04MEL (MOTOROLA)FLAT PACKAGE

TTL INVERTER

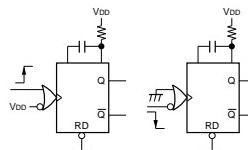
—TOP VIEW—



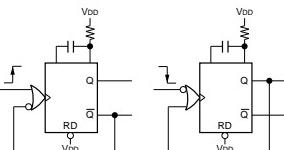
MC74F74M-EL (MOTOROLA)FLAT PACKAGE

TTL D-TYPE FLIP FLOP WITH DIRECT SET/RESET
—TOP VIEW—MC74HC4538AF (MOTOROLA)FLAT PACKAGE
MC74HC4538AFELC-MOS DUAL RETRIGGERABLE / NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
—TOP VIEW—

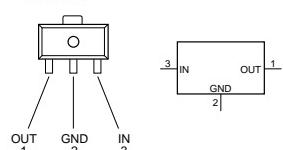
RETRIGGERABLE M. M. V



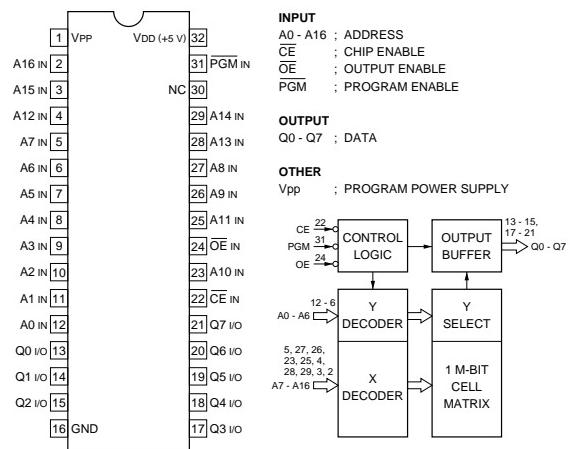
NON-RETRIGGERABLE M. M. V



NJM78L09UA(TE1) (JRC)+12 V(100 mA)

POSITIVE VOLTAGE REGULATOR
—SIDE VIEW—

MX27C1000DC-12 (MACRONIX)

C-MOS 1 M (128 K X 8)-BIT ERASABLE PROM
—TOP VIEW—

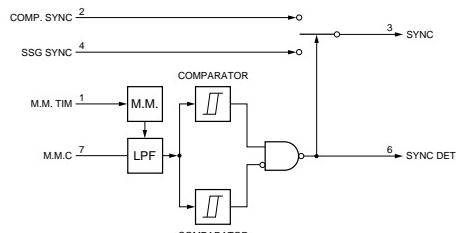
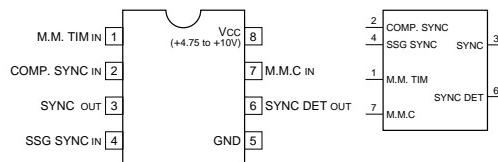
MODE	TERMINAL	CE	OE	PGM	A0	A9	Vpp	OUTPUT
READ		0	0	x	x	x	+5 V	D OUT
OUTPUT DISABLE		0	1	x	x	x	+5 V	HI-Z
STANDBY (TTL)		1	x	x	x	x	+5 V	HI-Z
STANDBY (CMOS)		Vdd±0.3 V	x	x	x	x	+5 V	HI-Z
PROGRAM		0	1	0	x	x	+12.5 V	D IN
PROGRAM VERIFY		0	0	1	x	x	+12.5 V	D OUT
PROGRAM INHIBIT		1	x	x	x	x	+12.5 V	HI-Z

0 : LOW LEVEL
1 : HIGH LEVEL
x : DONT CARE
HI-Z : HIGH IMPEDANCE

NJM2230M (JRC)FLAT PACKAGE
NJM2230M(TE2)

VIDEO SIGNAL DETECTOR

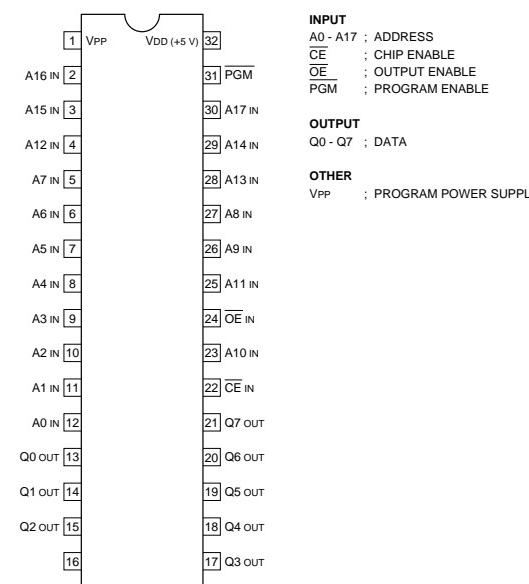
—TOP VIEW—



MX27C2000DC-12 (MACRONIX)

C-MOS 2 M (256 K × 8)-BIT ERASABLE PROM

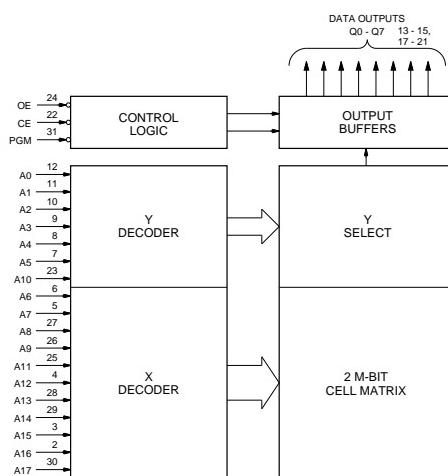
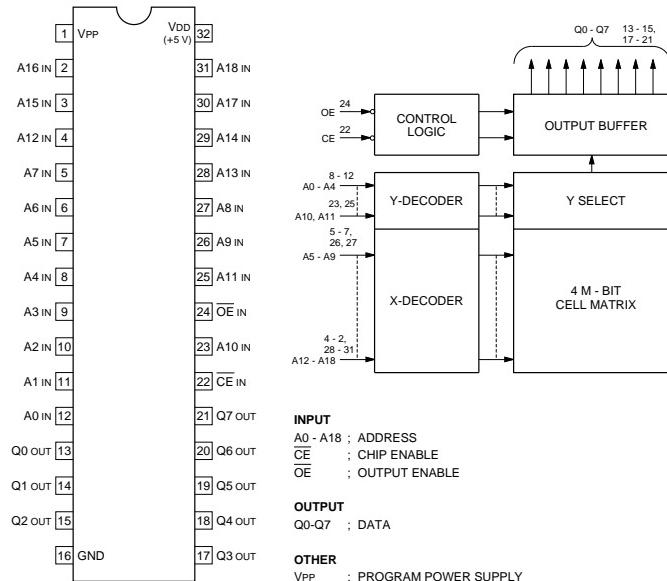
—TOP VIEW—



MX27C4000MC-12-TEL (MACRONIX)

C-MOS 4 M (512 K × 8)-BIT ERASABLE PROM

—TOP VIEW—



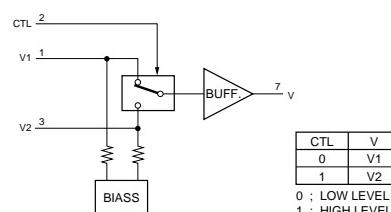
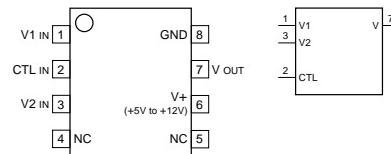
MODE	TERMINAL	CE	OE	PGM	A0	A9	VPP	OUTPUT
READ		0	0	x	x	x	+5 V	D OUT
OUTPUT DISABLE		0	1	x	x	x	+5 V	HI-Z
STANDBY (TTL)		1	x	x	x	x	+5 V	HI-Z
STANDBY (CMOS)	Vdd±0.3 V	x	x	x	x	x	+5 V	HI-Z
PROGRAM	0	1	0	x	x	x	+12.5 V	D IN
PROGRAM VERIFY	0	0	1	x	x	x	+12.5 V	D OUT
PROGRAM INHIBIT	1	x	x	x	x	x	+12.5 V	HI-Z

0 : LOW LEVEL
1 : HIGH LEVEL
x : DON'T CARE
HI-Z : HIGH IMPEDANCE

NJM2233BM (JRC)FLAT PACKAGE
NJM2233BM(TE2)

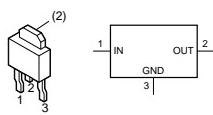
2-INPUT VIDEO SIGNAL SWITCH

—TOP VIEW—

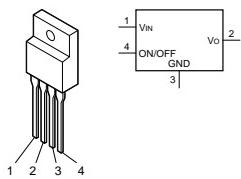
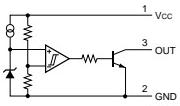
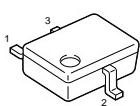
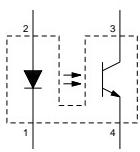
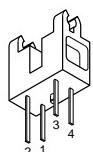


PQ05SZ1U (SHARP)+5 V 1 A**POSITIVE VOLTAGE REGULATOR**

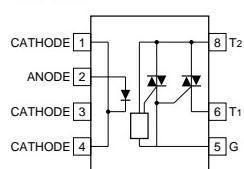
—TOP VIEW—

**PQ3RF33 (SHARP)+3.5 V****POSITIVE VOLTAGE REGULATOR (1A)**

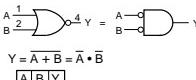
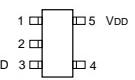
—TOP VIEW—

**PST572CMT (MITSUMI) Vs=4.5 V
PST572CMT-T1****RPI-5100 (ROHM)****PHOTO INTERRUPTER****S16MD01 (SHARP)****SOLID STATE RELAY**

—TOP VIEW—

**SC7S02F (MOTOROLA)CHIP PACKAGE
TC7S02F(TE85R)****C-MOS 2-INPUT NOR GATE**

—TOP VIEW—



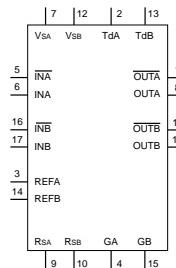
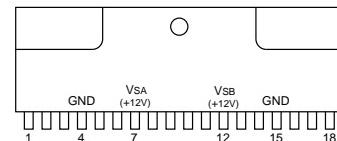
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

Y = $\overline{A} + \overline{B} = \overline{A} \cdot \overline{B}$
0 ; LOW LEVEL
1 ; HIGH LEVEL

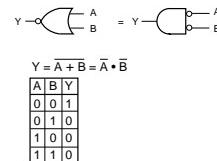
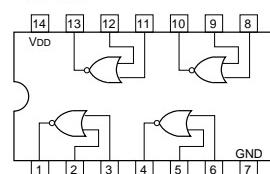
TYPE	VDD
4S01F	+3 to +18V
7S02F	
7S02FU	+2 to +6V
7SH02FU	

SLA7024M (SANKEN)**STEPPING MOTOR UNIPOLAR DRIVING**

—SIDE VIEW—

**SN74HC02ANS (TI)FLAT PACKAGE
SN74HC02ANS-E05****C-MOS QUAD 2-INPUT NOR GATES**

—TOP VIEW—



A	B	Y
0	0	1
0	1	0
1	0	0
1	1	1

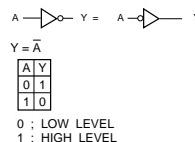
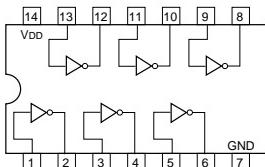
Y = $\overline{A} + \overline{B} = \overline{A} \cdot \overline{B}$
0 ; LOW LEVEL
1 ; HIGH LEVEL

TYPE	VDD
74HC	+2 to +6V
74AC/74VHC	+2 to +5.5V
74HCT/74ACT	+4.5 to +5.5V
74LCX	+2 to +3.6V

SN74HC04ANS (TI)FLAT PACKAGE
SN74HCU04ANS-E05 (TI)FLAT PACKAGE
SN74HCU04ANS-E20 (TI)FLAT PACKAGE

C-MOS HEX INVERTERS

—TOP VIEW—



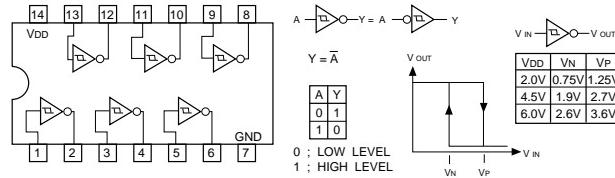
NOTE:

TYPE	V _{DD}
74AC/74VHC/74VHCT	+2 to +5.5V
74ACT/74HCT	+4.5 to +5.5V
74LCX	+2 to +3.6V
OTHER TYPES	+2 to +6V

SN74HC14ANS (TI)FLAT PACKAGE
SN74HC14ANS-E05

C-MOS HEX SCHMITT TRIGGER INVERTERS

—TOP VIEW—



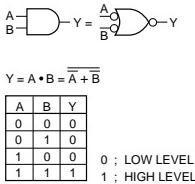
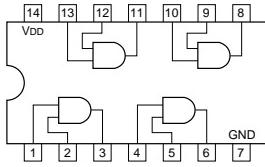
NOTE :

TYPE	V _{DD}
74LCX	+2 to +3.6V
TC74AC/VHC	+2 to +5.5V
OTHER TYPES	+2 to +6V

SN74HC08ANS (TI)FLAT PACKAGE
SN74HC08ANS-E05

C-MOS QUAD 2-INPUT AND GATE

—TOP VIEW—



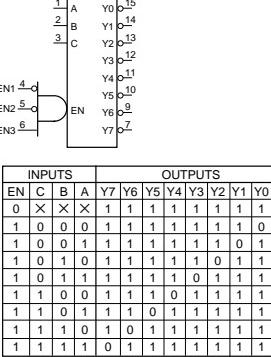
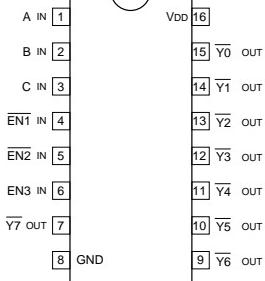
NOTE:

TYPE	V _{DD}
74AC	+2 to +5.5V
40H	+2 to +8V
74ACT/74HCT/74VHCT	+4.5 to +5.5V
74LCX	+2 to +3.6V
OTHER TYPES	+2 to +6V

SN74HC138ANS (TI)FLAT PACKAGE
SN74HC138ANS-E05

C-MOS 3-TO-8 LINE DECODER / DEMULTIPLEXER

—TOP VIEW—



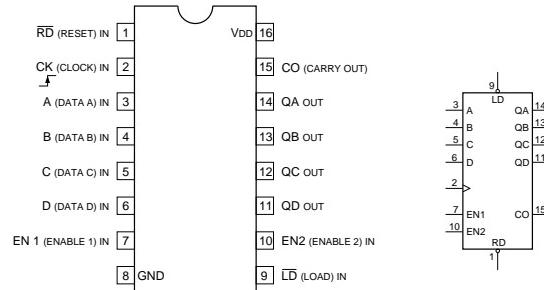
NOTE:

TYPE	V _{DD}
74ACT138 TYPE	+5V
74ACT138 TYPE	+4.5 to +5.5V
TC74AC138 TYPE	+2 to +5.5V
TC74VHC138	+2 to +6V

SN74HC161ANS (TI)FLAT PACKAGE
SN74HC161ANS-E05

C-MOS SYNCHRONOUS PRESETTABLE 4-BIT BINARY COUNTER

—TOP VIEW—



MODE SELECTION

CONTROL INPUTS				MODE
Rd	Ld	En1	En2	
0	X	X	X	RESET (ASYNCHRONOUS)
1	0	X	X	PRESET (SYNCHRONOUS)
1	1	0	0	NO COUNT
1	1	1	1	COUNT

0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE

CARRY OUTPUT "CO"



CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS *15*.

NOTE :

TYPE	V _{DD}
74ACT	+5V
TC40H	+2 to +8V
OTHERS	+2 to +6V

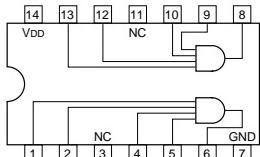
COUNT SEQUENCE

COUNT	OUTPUTS			
	Q0	Q1	Q2	Q3
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

SN74HC21ANS (TI)FLAT PACKAGE
SN74HC21ANS-E05

C-MOS DUAL 4-INPUT POSITIVE AND GATE

—TOP VIEW—



$$Y = A \cdot B \cdot C \cdot D = A + B + C + D$$

A	B	C	D	Y
0	0	0	0	0
0	0	0	1	0
0	0	1	0	0
0	0	1	1	0
0	1	0	0	0
⋮	⋮	⋮	⋮	⋮
1	1	0	1	0
1	1	1	0	0
1	1	1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL

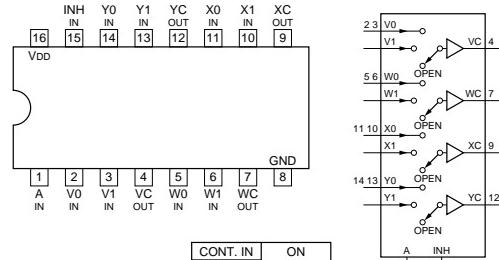
NOTE:

TYPE	V _{DD}
HC	+2V to +6V
VHC	+2V to +5.5V

SN74HC257ANS-E05 (TI)FLAT PACKAGE

C-MOS 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER

—TOP VIEW—



CONT.	IN	ON
0	INH	0
0	A	CHANNEL
1	X	OPEN

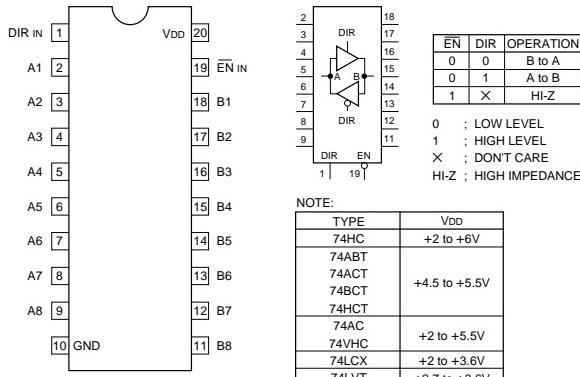
NOTE :

TYPE	V _{DD}
74AC/74HC	+2 to +6V
74ACT	+5V
TC74AC257F	+2 to +5.5V

SN74HC245ANS (TI)FLAT PACKAGE
SN74HC245ANS-E05

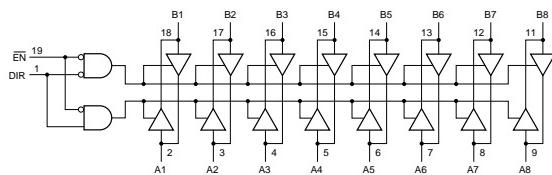
C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS

—TOP VIEW—



EN	DIR	OPERATION
0	0	B to A
0	1	A to B
1	X	Hi-Z
		HI-Z ; HIGH IMPEDANCE

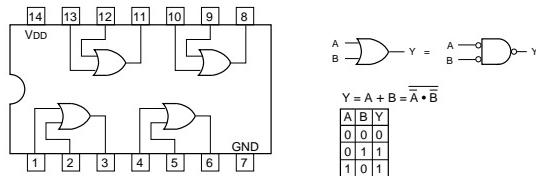
TYPE	V _{DD}
74HC	+2 to +6V
74ABT	
74ACT	+4.5 to +5.5V
74BCT	
74HCT	+2 to +5.5V
74AC	+2 to +5.5V
74VHC	+2 to +3.6V
74LCX	+2 to +3.6V
74LVT	+2.7 to +3.6V



SN74HC32ANS (TI)FLAT PACKAGE
SN74HC32ANS-E05

C-MOS QUAD 2-INPUT OR GATES

—TOP VIEW—



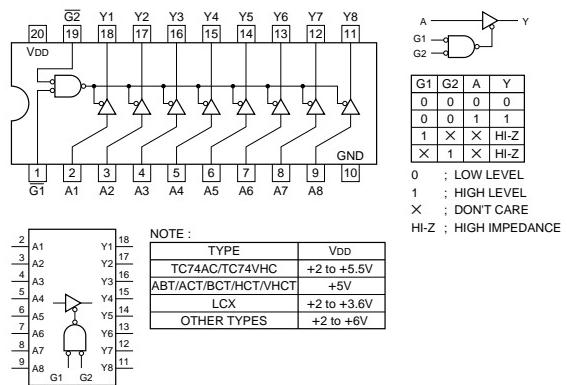
$Y = A + B = \bar{A} \cdot \bar{B}$
A B Y
0 0 0
0 1 1
1 0 1
1 1 1

TYPE	V _{DD}
74AC/74HC	+2 to +5.5V
74HC	+2 to +6V
74HCT	+4.5 to +5.5V

SN74HC541ANS (TI)FLAT PACKAGE
SN74HC541ANS-E05

C-MOS BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS

—TOP VIEW—



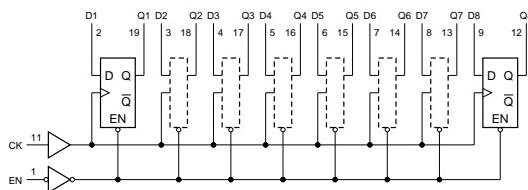
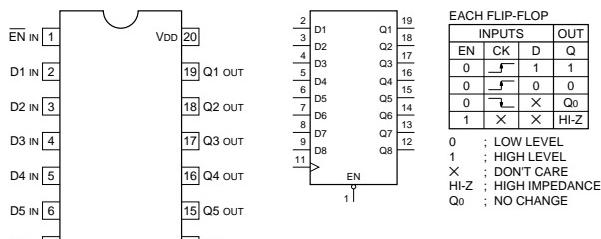
G1	G2	A	Y
0	0	0	0
0	0	1	1
1	X	X	Hi-Z
X	1	X	Hi-Z

0	; LOW LEVEL
1	; HIGH LEVEL
X	; DONT CARE
	Hi-Z ; HIGH IMPEDANCE

**SN74HC574ANS (TI)FLAT PACKAGE
SN74HC574ANS-E05**

C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP

—TOP VIEW—



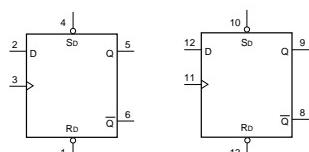
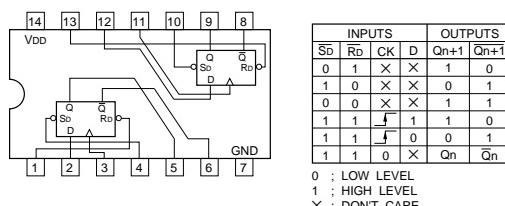
NOTE:

TYPE	V _{DD}
74HC	+2 to +6V
74AC/74VHC	+2 to +5.5V
74ACT/74FCT	+4.5 to +5.5V
74HCT/74VHCT	+4.5 to +5.5V
74LCX	+2 to +3.6V
74LVC	+2.7 to +3.6V

**SN74HC74ANS (TI)FLAT PACKAGE
SN74HC74ANS-E05**

C-MOS DUAL D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET

—TOP VIEW—

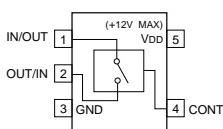


TYPE	V _{DD}
74HCT/74ACT	+4.5 to +5.5V
74LVC	+2.7 to +3.6V
74AC/74VHC	+2 to +5.5V
OTHERS	+2 to +6V

**TC7S66F (TOSHIBA)CHIP PACKAGE
TC7S66F(TE85R)**

C-MOS ANALOG SWITCH

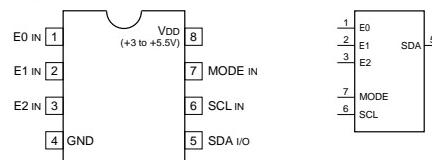
—TOP VIEW—



ST24C01FM6TR (SGS)

C-MOS SERIAL ACCESS 1K (128 × 8)-BIT EEPROM

—TOP VIEW—

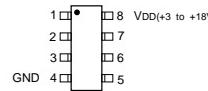


E0 - E2 ; CHIP ENABLE INPUTS
MODE ; WRITE MODE INPUT
SCL ; SERIAL CLOCK INPUT
SDA ; SERIAL DATA ADDRESS INPUT/OUTPUT

**TC4W53F (TOSHIBA)CHIP PACKAGE(5.0 X 3.1)
TC4W53F(TE12R)**

C-MOS 2-CHANNEL MULTIPLEXER / DEMULTIPLEXER

—TOP VIEW—



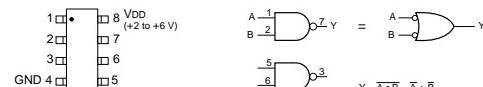
CONT.INPUT	ON CHANNEL
INH A	ch0
0 0	ch0
0 1	ch1
1 X	OPEN



TC7W00F(TE12R) (TOSHIBA)CHIP PACKAGE

C-MOS DUAL 2-INPUT NAND GATE

—TOP VIEW—



A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0 : LOW LEVEL
1 : HIGH LEVEL

**TC7W08F (TOSHIBA)CHIP PACKAGE
TC7W08F(TE12R)**

C-MOS 2-INPUT AND GATE

—TOP VIEW—



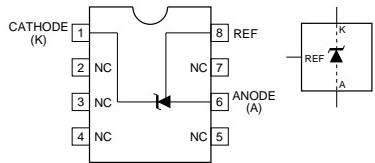
A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0 : LOW LEVEL
1 : HIGH LEVEL

TL431CPS (TI)FLAT PACKAGE
TL431CPS-E20

ADJUSTABLE PRECISION SHUNT REGULATOR

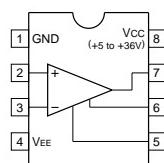
—TOP VIEW—



UPC311G2 (NEC)FLAT PACKAGE
UPC311G2-E2

VOLTAGE COMPARATOR

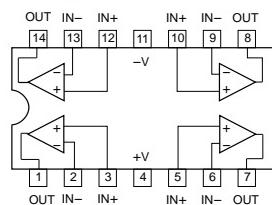
—TOP VIEW—



UPC324G2 (NEC)FLAT PACKAGE
UPC324G2-E2

QUAD OPERATIONAL AMPLIFIERS

—TOP VIEW—

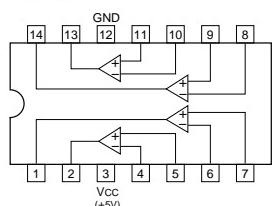


	+V	-V
SINGLE SUPPLY	+3 to +32V	GND
DUAL SUPPLIES	+1.5 to +16V	-1.5 to -16V

UPC339G2-E2 (NEC)FLAT PACKAGE

QUAD COMPARATORS

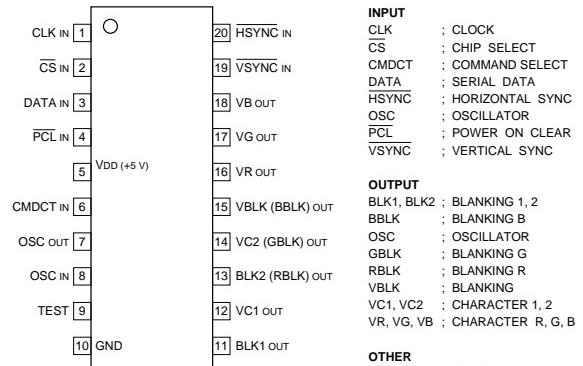
—TOP VIEW—



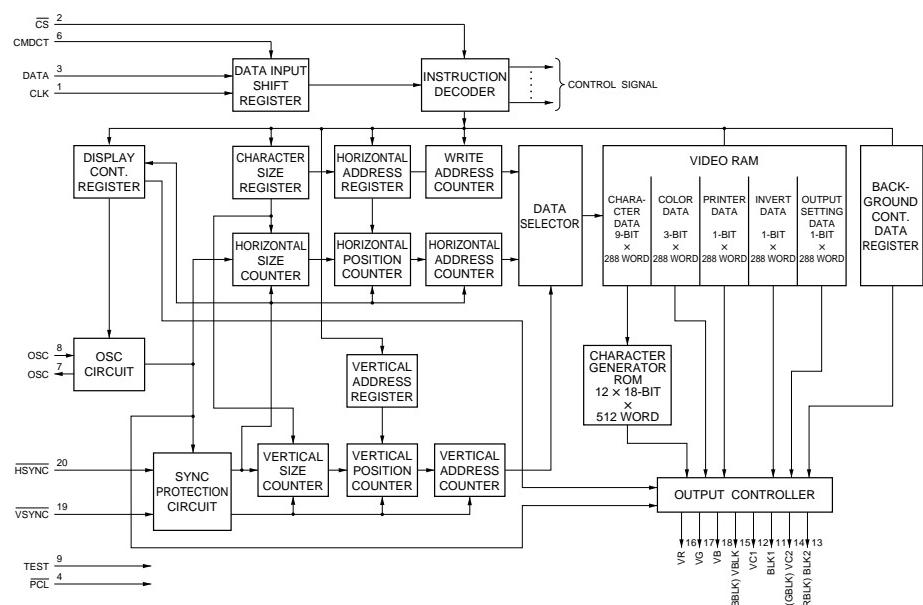
UPD6466GS-502-E2 (NEC)

C-MOS ON-SCREEN CHARACTER DISPLAY

—TOP VIEW—



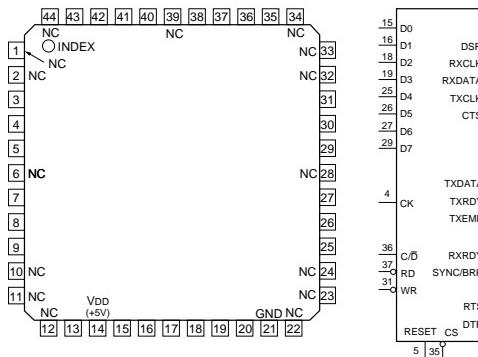
* IN () ARE SET BY SETTING WITH INITIAL CONDITION SETTING COMMAND.



UPD71051GU-10 (NEC)FLAT PACKAGE
UPD71051GU-10-E2

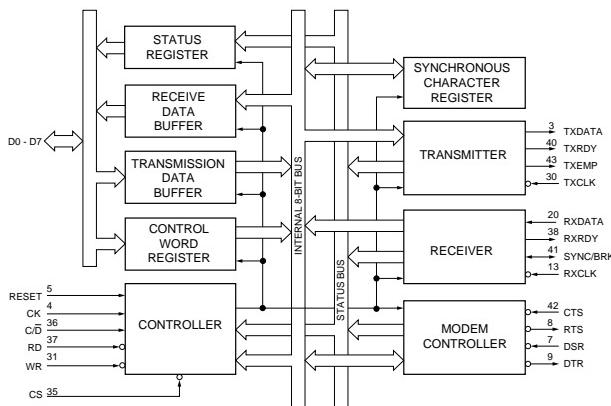
C-MOS SERIAL CONTROLLER

—TOP VIEW—



PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL	PIN No.	I/O	SYMBOL
1	—	NC	12	—	NC	23	—	NC	34	—	NC
2	—	NC	13	I	RXCLK	24	—	NC	35	I	CS
3	O	TXDATA	14	—	VDD(+5V)	25	I/O	D4	36	I	C/D
4	I	CK	15	I/O	D0	26	I/O	D5	37	I	RD
5	I	RESET	16	I/O	D1	27	I/O	D6	38	O	RXRDY
6	—	NC	17	—	IC	28	—	NC	39	—	NC
7	I	DSR	18	I/O	D2	29	I/O	D7	40	O	TXRDY
8	O	RTS	19	I/O	D3	30	I	TXCLK	41	I/O	SYNC/BRK
9	O	DTR	20	I	RXDATA	31	I	WR	42	I	CTS
10	—	NC	21	—	GND	32	—	NC	43	O	TXEMP
11	—	NC	22	—	NC	33	—	NC	44	—	NC

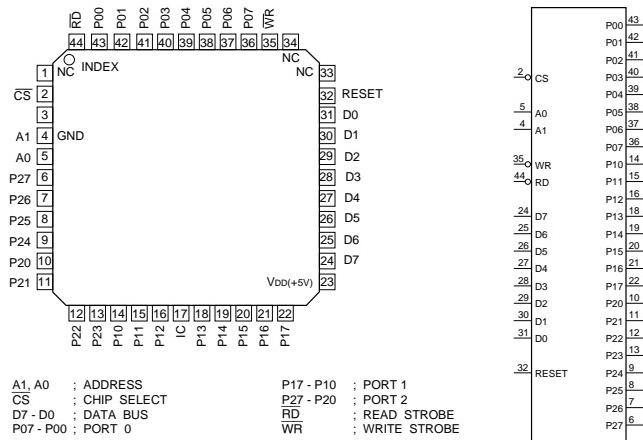
CK	CLOCK INPUT	TXRDY	TRANSMIT READY OUTPUT
CS	CHIP SELECT INPUT	RD	READ STROBE INPUT
CTS	CLEAR TO SEND OUTPUT	RESET	RESET INPUT
C/D	CONTROL/DATA SELECT INPUT	RTS	REQUEST TO SEND OUTPUT
D0 - D7	DATA INPUTS/OUTPUTS	RXCLK	RECEIVER CLOCK INPUT
DSR	DATA SET READY INPUT	RXDATA	RECEIVE DATA INPUT
DTR	DATA TERMINAL READY OUTPUT	RXRDY	RECEIVER READY OUTPUT
TXCLK	TRANSMITTER CLOCK INPUT	SYNC/BRK	SYNCHRONIZATION/BREAK INPUT/OUTPUT
TXDATA	TRANSMIT DATA OUTPUT	WR	WRITE STROBE INPUT
TXEMP	TRANSMITTER EMPTY OUTPUT		



UPD71055GB-3B4 (NEC)FLAT PACKAGE

C-MOS PARALLEL INTERFACE UNIT

—TOP VIEW—

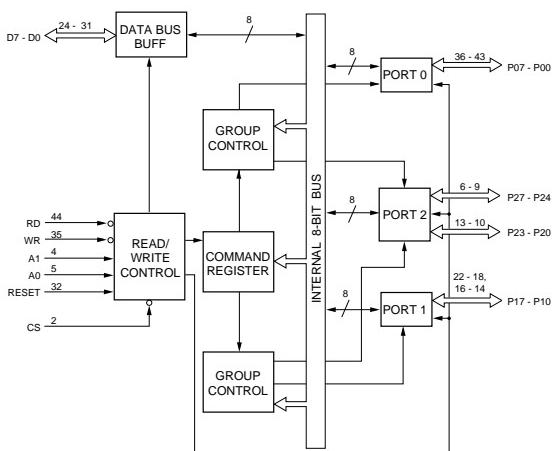


A1, A0	ADDRESS	P17 - P10	PORT 1
CS	CHIP SELECT	P27 - P20	PORT 2
D7 - D0	DATA BUS	RD	READ STROBE
P07 - P00	PORT 0	WR	WRITE STROBE

IC ; INTERNALLY CONNECTED

CS	RD	WR	A1	A0	OPERATION	CPU ACTION
0	0	1	0	0	PORT0 → DATA • BUS	INPUT
0	0	1	0	1	PORT1 → DATA • BUS	INPUT
0	0	1	1	0	PORT2 → DATA • BUS	INPUT
0	0	1	1	1	DISABLE	
0	0	0	X	X		
0	1	0	0	0	DATA • BUS → PORT0	OUTPUT
0	1	0	0	1	DATA • BUS → PORT1	OUTPUT
0	1	0	1	0	DATA • BUS → PORT2	OUTPUT
0	1	0	1	1	DATA • BUS → COMMAND REGISTER	OUTPUT
0	1	1	X	X	HIGH IMPEDANCE	
1	X	X	X	X		

; LOW LEVEL
; HIGH LEVEL
; DON'T CARE



SECTION 8

SPARE PARTS

8-1. NOTES ON SPARE PARTS

(1) Safety Related Components Warning

Components marked Δ are critical to safe operation.
Therefore, specified parts should be used in the case of replacement.

(2) Standardization of Parts

Spare parts supplied from Sony Parts Center may not be always identical with the parts which actually in use due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts".

This manual's exploded views and electrical spare parts list are indicating the part numbers of "the standardized genuine parts at present".

(3) Stock of Parts

Parts marked with "o" SP (Supply Code) column of the spare parts list are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.

(4) Units for Capacitors, Inductors and Resistors

The following units are assumed in schematic diagrams, electrical parts list and exploded views unless otherwise specified.

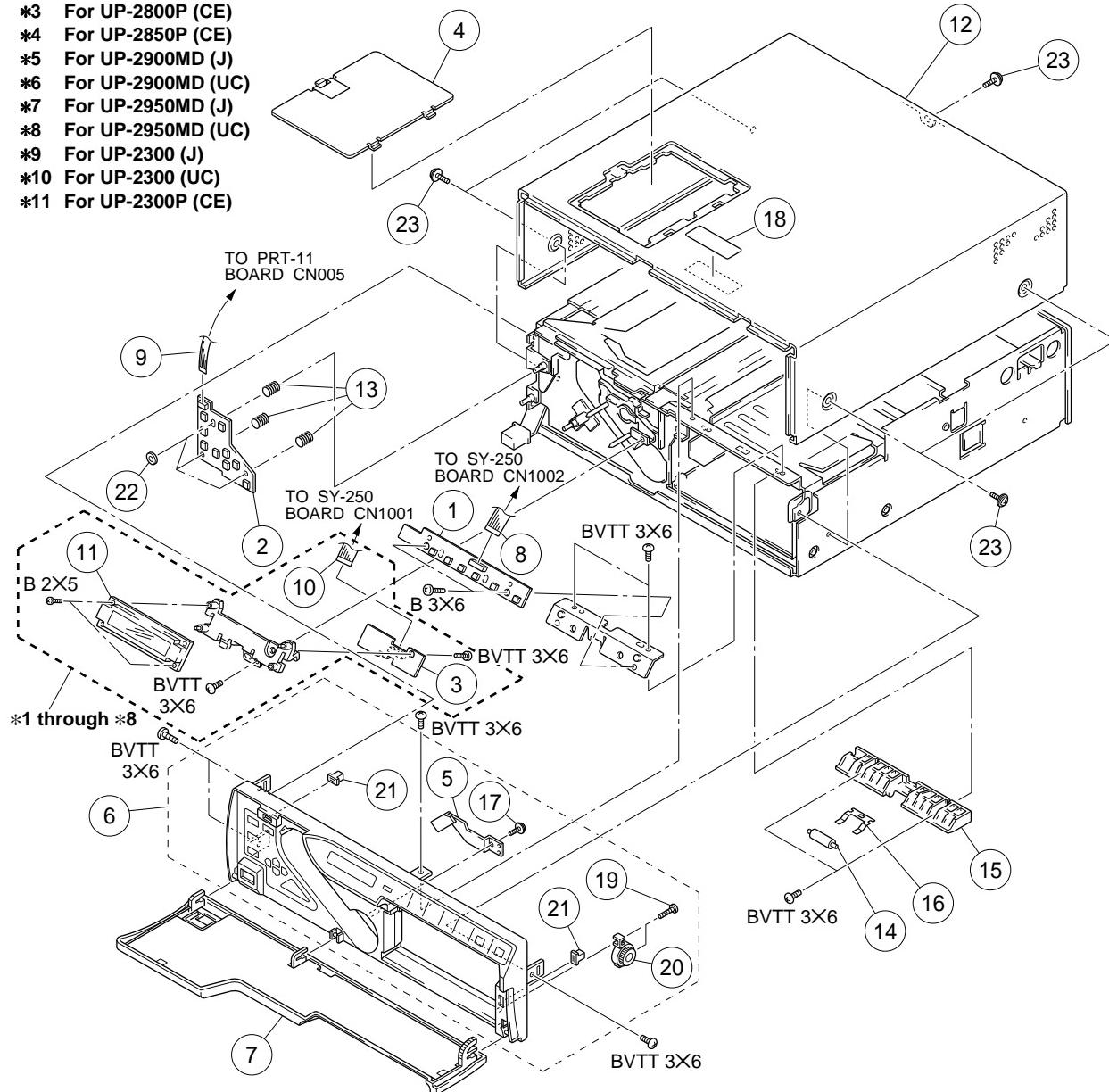
Capacitors : μF

Inductors : μH

Resistors : Ω

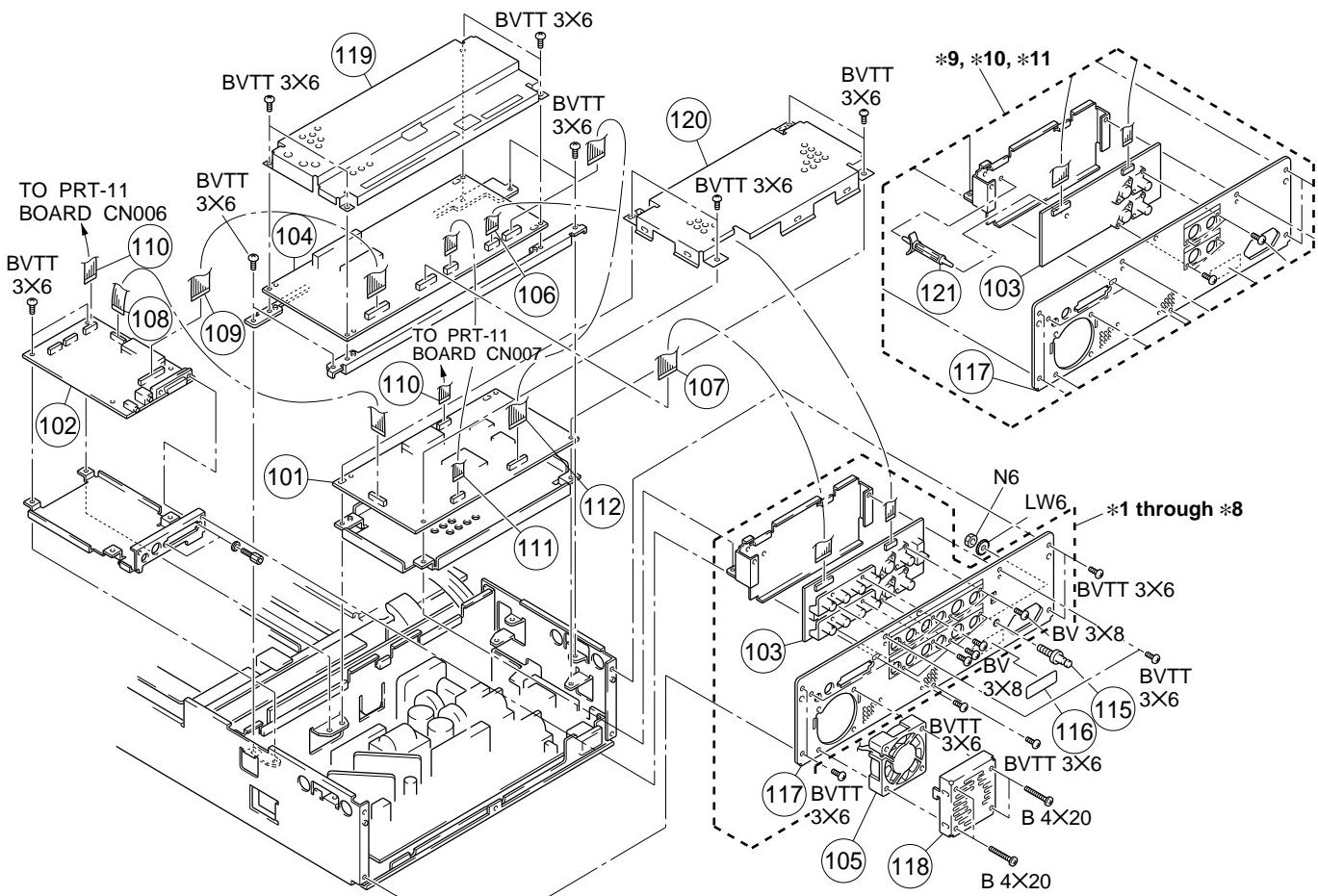
8-2. EXPLODED VIEWS

NOTE : *1 For UP-2800 (J)
 *2 For UP-2800 (UC)
 *3 For UP-2800P (CE)
 *4 For UP-2850P (CE)
 *5 For UP-2900MD (J)
 *6 For UP-2900MD (UC)
 *7 For UP-2950MD (J)
 *8 For UP-2950MD (UC)
 *9 For UP-2300 (J)
 *10 For UP-2300 (UC)
 *11 For UP-2300P (CE)



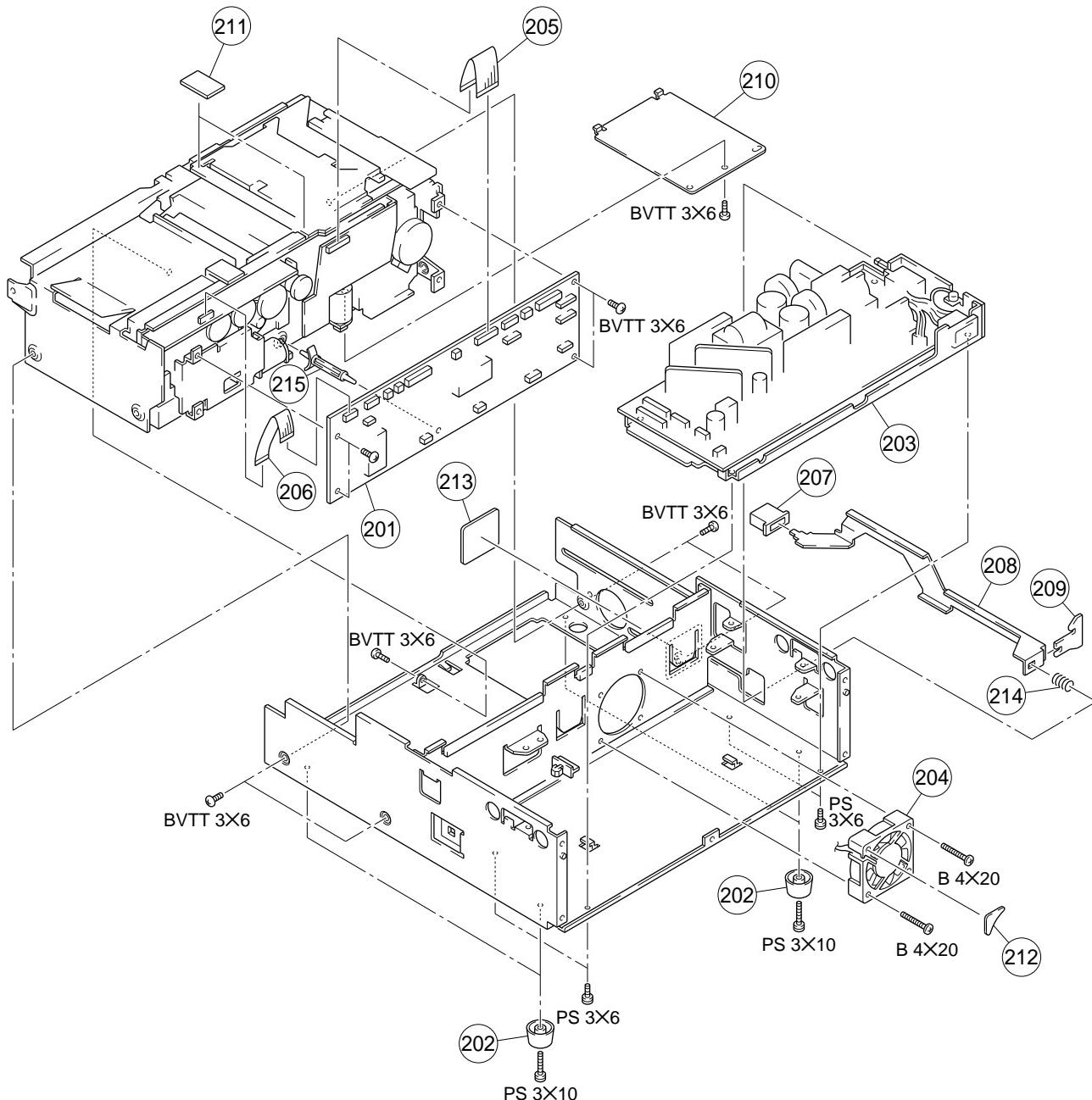
No.	Part No.	SP Description	No.	Part No.	SP Description
1	A-8315-859-A	o MOUNTED CIRCUIT BOARD, KY-401	9	1-782-728-11	s WIRE, FLAT TYPE (9-CORE)
2	A-8315-861-A	o MOUNTED CIRCUIT BOARD, KY-402	10	1-782-737-11	s WIRE, FLAT TYPE (16-CORE)
3	A-8315-870-A	o MOUNTED CIRCUIT BOARD, CN-1520 *1, *2, *3, *4, *5, *6, *7, *8	11	1-801-886-11	s LCD MODULE *1, *2, *3, *4, *5, *6, *7, *8
4	X-3679-335-3	o LID ASSY, TOP COVER	12	3-608-956-01	o COVER, TOP
5	X-3679-336-1	s SPRING ASSY, RIBBON EJECT	13	3-609-320-01	s SPRING, COMPRESSION
6	X-3679-337-1	s PANEL ASSY, FRONT *1, *2, *3, *4, *5, *6, *7, *8	14	3-609-524-01	s ROLLER, SUPPORT PAPER EJECT
	X-3679-383-1	s PANEL ASSY, FRONT *9, *10, *11	15	3-609-527-02	s GUIDE, PAPER FRONT
7	X-3679-338-1	s DOOR ASSY, FRONT *1, *2	16	3-609-529-01	s SPRING, ROLLER PAPER EJECT
	X-3679-343-1	s DOOR ASSY, FRONT(2800P) *3	17	3-669-480-21	s + PTPWH 2
	X-3679-344-1	s DOOR ASSY, FRONT(2900MD) *5, *6	18	3-672-115-02	o LABEL, CAUTION *2, *6, *8, *10
	X-3679-345-1	s DOOR ASSY, FRONT(2950MD) *7, *8	19	3-713-790-31	s SCREW (M2X8), TAPPING, P3
	X-3679-346-1	s DOOR ASSY, FRONT(2850P) *4	20	3-721-204-11	s DAMPER
	X-3679-384-1	s DOOR ASSY, FRONT(2300) *9, *10	21	3-736-779-21	s MAGNET
	X-3679-385-1	s DOOR ASSY, FRONT(2300P) *11	22	4-862-338-00	s RING, STOPPER
8	1-782-727-11	s WIRE, FLAT TYPE (14-CORE)	23	4-886-821-11	s SCREW, M3 CASE

NOTE : *1 For UP-2800 (J) *4 For UP-2850P (CE) *7 For UP-2950MD (J) *10 For UP-2300 (UC)
 *2 For UP-2800 (UC) *5 For UP-2900MD (J) *8 For UP-2950MD (UC) *11 For UP-2300P (CE)
 *3 For UP-2800P (CE) *6 For UP-2900MD (UC) *9 For UP-2300 (J)



No.	Part No.	SP Description	No.	Part No.	SP Description
101	A-8315-855-A	o MOUNTED CIRCUIT BOARD, FMY-21(N1) *1, *2, *5, *9, *10	105	1-541-684-51	s MOTOR, DC
	A-8315-952-A	o MOUNTED CIRCUIT BOARD, FMY-21(P1) *3, *6, *11	106	1-782-724-11	s WIRE, FLAT TYPE(15-CORE)
	A-8315-971-A	o MOUNTED CIRCUIT BOARD, FMY-21(P4) *4, *8	107	1-782-725-11	s WIRE, FLAT TYPE(22-CORE)
	A-8315-976-A	o MOUNTED CIRCUIT BOARD, FMY-21(N4)*7	108	1-782-726-11	s WIRE, FLAT TYPE(18-CORE)
			109	1-782-733-11	s WIRE, FLAT TYPE(30-CORE)
102	A-8315-857-A	o MOUNTED CIRCUIT BOARD, SY-250 *1, *2, *3, *4, *6, *8	110	1-782-734-11	s WIRE, FLAT TYPE(14-CORE)
	A-8315-964-A	o MOUNTED CIRCUIT BOARD, SY-250(TPCN) *5, *7	111	1-782-907-11	s CABLE, FLAT(WITH SHIELD)
	A-8316-219-A	o MOUNTED CIRCUIT BOARD, SY-250 *9, *10	112	1-782-908-11	s CABLE, FLAT(WITH SHIELD)
	A-8316-235-A	o MOUNTED CIRCUIT BOARD, SY-250(XDRV)*11	115	3-175-740-01	o TERMINAL *3, *4, *6, *8, *11
			116	3-179-847-01	o LABEL(NORTHERN EUROPE), CAUTION *3, *4, *6, *8, *11
103	A-8315-863-A	o MOUNTED CIRCUIT BOARD, IF-672 *1, *2, *3, *4, *5, *7	117	3-608-950-01	o PANEL, REAR *1, *2, *5, *7
	A-8315-954-A	o MOUNTED CIRCUIT BOARD, IF-672(NP) *6, *8		3-609-310-01	o PANEL, REAR *3, *4
	A-8316-221-A	o MOUNTED CIRCUIT BOARD, IF-710 *9, *10, *11		3-609-319-01	o PANEL, REAR *6, *8
				3-609-627-01	o PANEL, REAR *11
				3-609-628-01	o PANEL, REAR *9, *10
104	A-8315-865-A	o MOUNTED CIRCUIT BOARD, VA-181(N) *1, *2, *5, *7	118	3-608-999-01	o COVER, FAN
	A-8315-939-A	o MOUNTED CIRCUIT BOARD, VA-181(P) *3, *4	119	3-609-736-01	o CASE, SHIELD VA *3, *4, *6, *8, *11
	A-8315-956-A	o MOUNTED CIRCUIT BOARD, VA-181(NP) *6, *8	120	3-609-737-01	o CASE, SHIELD FMY *3, *4, *6, *8, *11
	A-8316-223-A	o MOUNTED CIRCUIT BOARD, VA-181(N3) *9, *10	121	3-703-353-01	o SUPPORT, PC BOARD
	A-8316-237-A	o MOUNTED CIRCUIT BOARD, VA-181(P3)*11			

SWITCHING REGULATOR



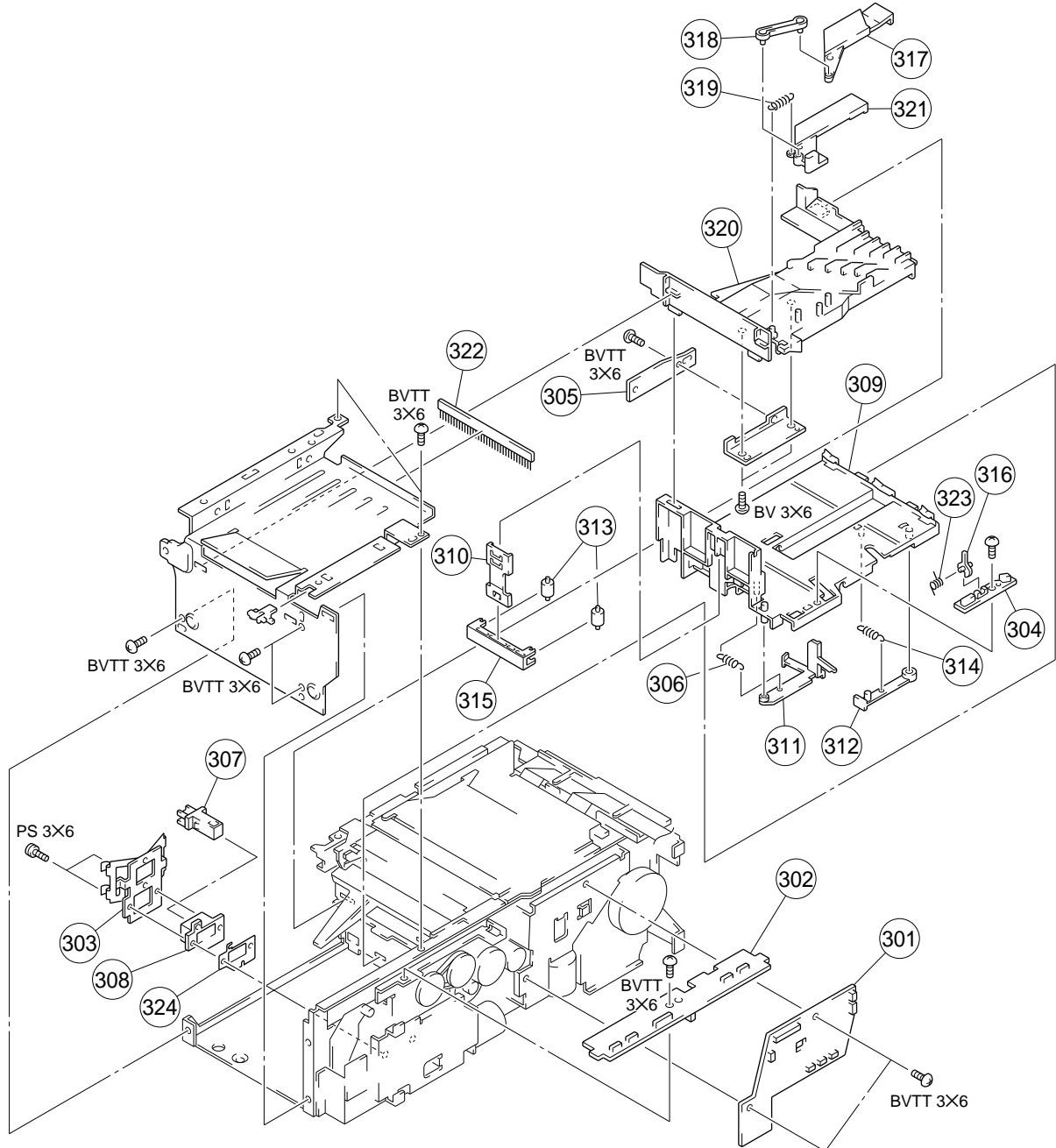
No. Part No. SP Description

201	A-8315-868-A	o MOUNTED CIRCUIT BOARD, PRT-11
202	X-3566-109-0	s FOOT ASSY, MF
203	△ 1-468-250-11	s REGULATOR, SWITCHING
(△	1-576-232-41	s FUSE 5A 250V)
204	1-541-684-51	s MOTOR, DC
205	1-782-735-11	s WIRE, FLAT TYPE (22 CORE)
206	1-782-736-11	s WIRE, FLAT TYPE (12 CORE)
207	2-431-568-31	s BUTTON, POWER
208	3-608-957-01	o ROD, POWER SWITCH
209	3-608-958-01	s STOPPER, ROD

No. Part No. SP Description

210	3-609-303-01	o LID, MECHA CHASISS
211	3-609-678-01	o SPACER
212	3-609-783-01	o STOPPER, WIRE
213	3-611-257-01	o SHEET, PROTECTION
214	3-611-601-01	s SPRING, COMPRESSION

215 3-703-353-12 o SUPPORTER, PC BOARD



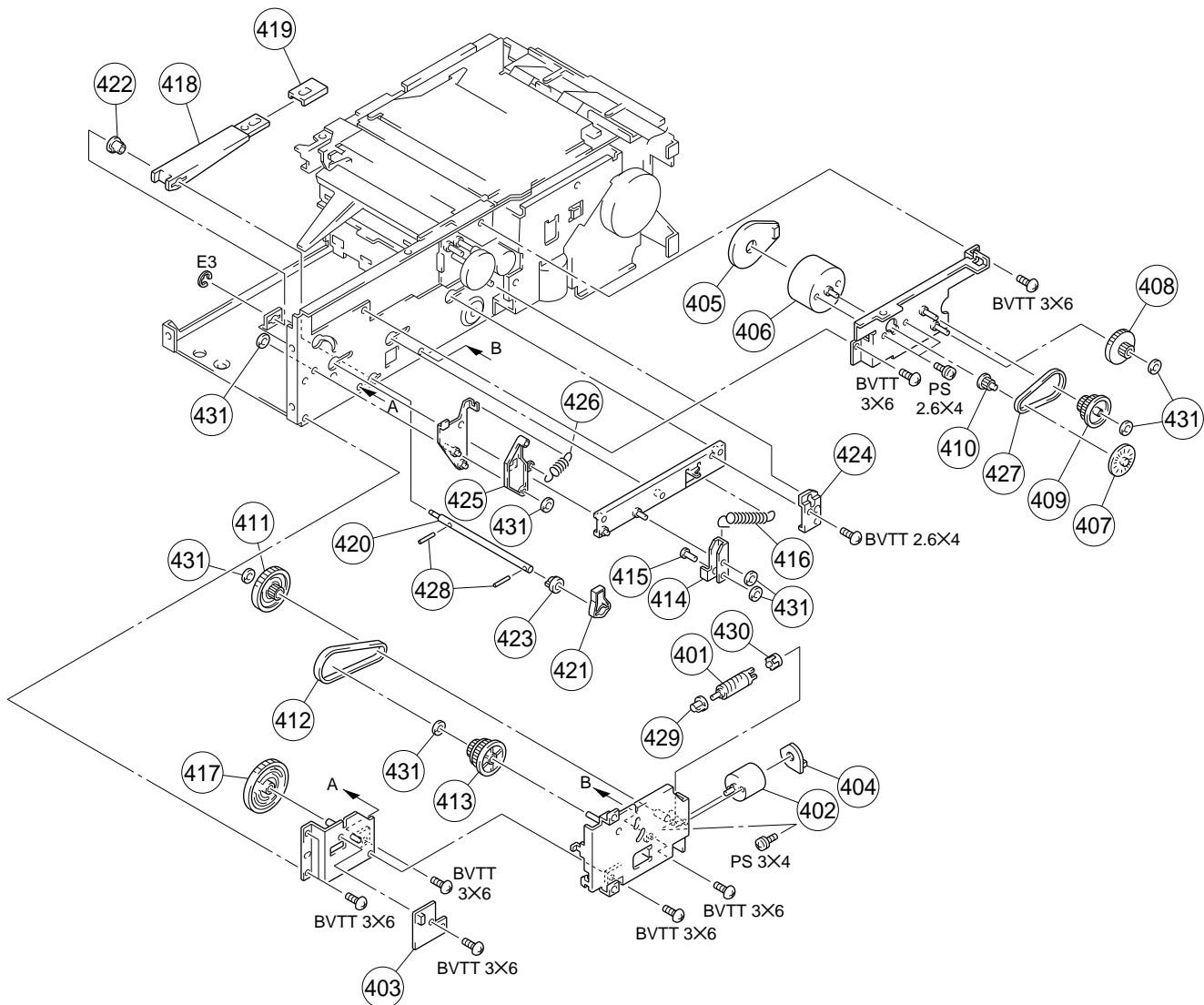
No. Part No. SP Description

301	A-8315-872-A	o MOUNTED CIRCUIT BOARD, SE-417
302	A-8315-874-A	o MOUNTED CIRCUIT BOARD, SE-418
303	X-3679-339-1	o SPRING ASSY, PAPER PUSH
304	1-666-986-11	o PRINTED CIRCUIT BOARD, SE-426
305	1-666-998-11	o PRINTED CIRCUIT BOARD, SE-430
306	3-183-184-01	s SPRING, EXTENSION
307	3-193-308-01	s CATCHER, PUSH
308	3-608-981-02	s HOLDER, PUSH-CATCHER
309	3-608-983-02	s RETAINER, PAPER SUPPLY TRAY
310	3-608-988-01	s SPRING, TRAY PUSH

No. Part No. SP Description

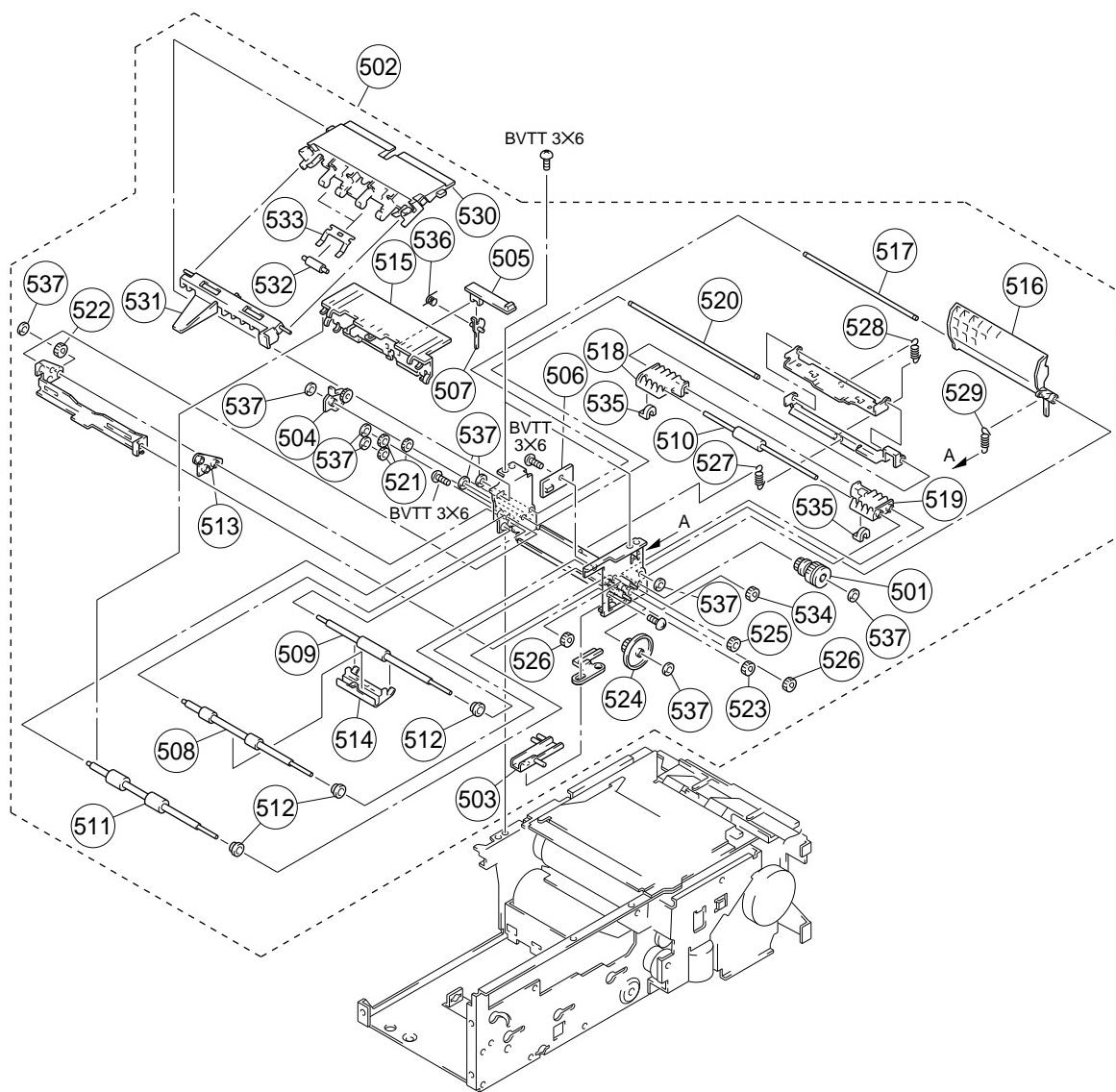
311	3-608-989-02	s ARM, PAPER SENSOR
312	3-608-996-01	s ARM
313	3-608-997-01	s ROLLER
314	3-608-998-01	s SPRING, EXTENSION(TRAY OUT)
315	3-609-309-01	s HOLDER
316	3-609-353-01	s ARM, PE SENSOR
317	3-609-509-02	s LEVER, SUPPORT PAPER EJECT
318	3-609-510-01	s LEVER, JOINT PAPER EJECT
319	3-609-520-01	s SPRING, EXTENSION(PE A)
320	3-609-525-02	s BASE, PAPER EJECT
321	3-609-526-02	s LEVER, PAPER EJECT
322	3-609-530-01	o ELIMINATOR, STATIC ELECTRICITY
323	3-683-691-01	s SPRING, HELICAL TORSION(SENSOR)
324	3-611-770-01	s SPASER, TRAY

MECHANISM BLOCK (2)



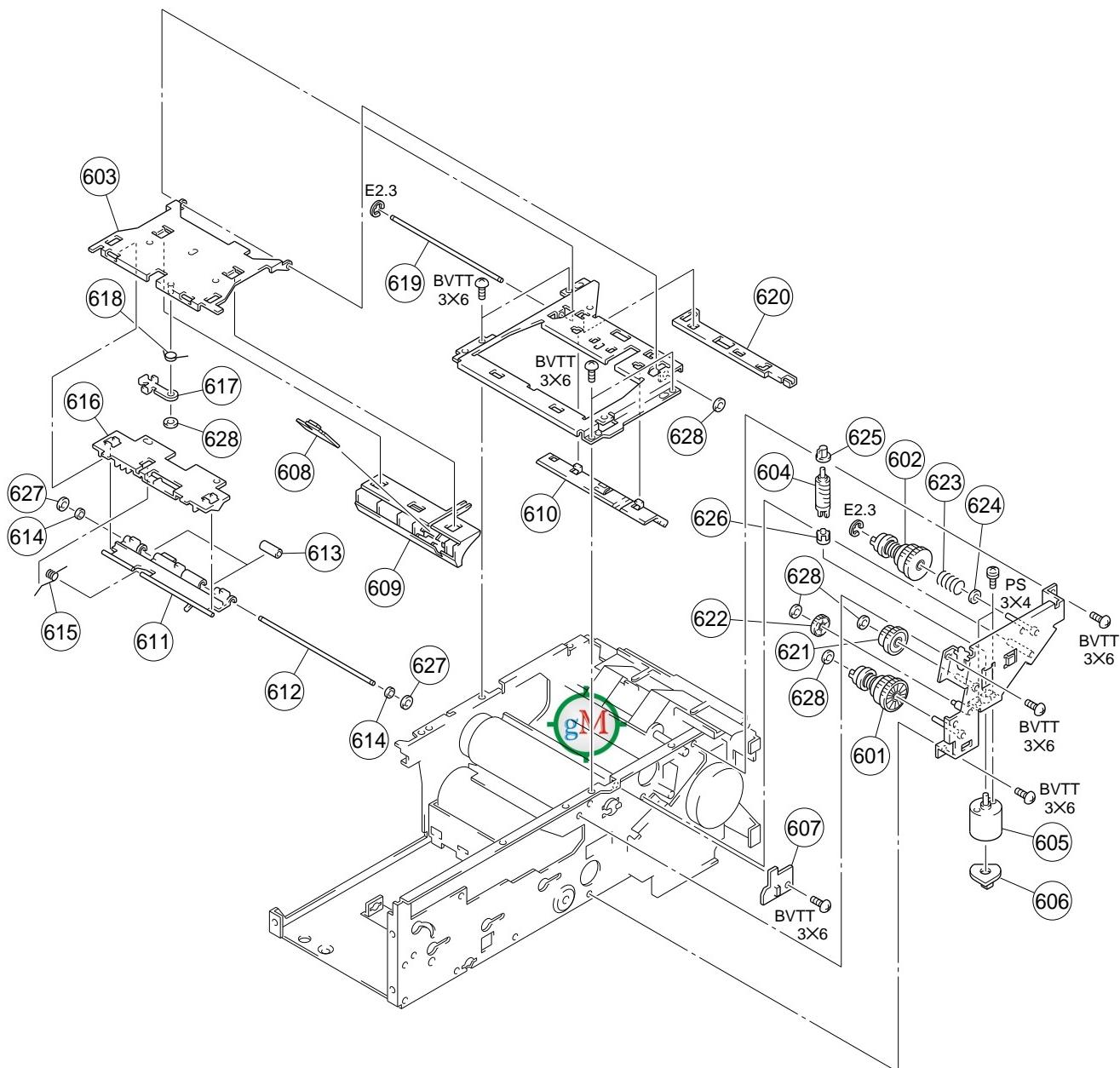
No.	Part No.	SP Description	No.	Part No.	SP Description
401	X-3679-355-1	s GEAR ASSY, WORM	416	3-609-419-01	s SPRING, EXTENSION
402	1-541-309-11	s MOTOR, L(RF-370C)	417	3-609-422-02	s CAM, TRAY MOTOR
403	1-666-997-11	o PRINTED CIRCUIT BOARD, SE-429	418	3-609-423-01	o ARM, PAPER SUPPLY
404	1-667-001-11	o PRINTED CIRCUIT BOARD, SU-38	419	3-609-424-01	s CAP, ARM
405	1-667-002-11	o PRINTED CIRCUIT BOARD, SU-39	420	3-609-425-01	o SHAFT, PAPER SUPPLY ARM
*406	1-698-323-11	s MOTOR, DC	421	3-609-426-01	o LEVER, PAPER SUPPLY
407	3-173-567-02	s FIN, FG	422	3-609-427-01	s BEARING, AS 4
408	3-609-398-01	s GEAR, PU B	423	3-609-428-01	s BEARING, AS 5
409	3-609-399-01	s GEAR PULLEY, PU	424	3-609-429-01	o PLATE, LINK JOINT
*410	3-609-400-02	s PULLEY, PAPER SUPPLY MOTOR	425	3-609-514-01	s LINK B, PAPER EJECT
411	3-609-408-02	s WORM WHEEL, TM	426	3-609-521-01	s SPRING, EXTENSION(PE B)
412	3-609-409-01	s BELT, 110TN15	427	3-686-322-01	s BELT, 72TN15
413	3-609-410-01	s GEAR PULLEY, TM	428	3-703-357-09	s PIN (DIA. 1.6 SERISE)
414	3-609-417-02	o LINK, PAPER SUPPLY LEVER	429	3-737-880-01	s CAP, WORM SHAFT
415	3-609-418-01	o PIN, PS LEVER LINK	430	3-737-886-01	s TABLE, WORM
			431	4-926-219-02	s RING (DIA.2, 3), RETAINING

*NOTE : When replacing the motor of No.406, it is necessary to replace the pulley of No.410.



No.	Part No.	SP Description	No.	Part No.	SP Description
501	A-8278-640-A	s GEAR ASSY, P LIMITER	521	3-609-384-01	s GEAR, BC B
502	A-8315-915-A	o PREPARE BLOCK ASSY, PAPER	522	3-609-385-01	s GEAR, BC C
503	X-3679-353-1	o LINK ASSY, PS BLOCK	523	3-609-386-01	s GEAR, PICK UP
504	X-3679-356-1	s ARM ASSY, BC	524	3-609-387-01	s GEAR, PU A
505	1-666-987-11	o PRINTED CIRCUIT BOARD, SE-427	525	3-609-388-01	s GEAR, P SUPPLY IDLER
506	1-666-988-11	o PRINTED CIRCUIT BOARD, SE-428	526	3-609-389-01	s GEAR, SEPARATION
507	3-609-353-01	s ARM, PE SENSOR	527	3-609-391-01	s SPRING, EXTENSION
508	3-609-369-01	s ROLLER, PICK UP	528	3-609-392-01	s SPRING, EXTENSION
509	3-609-370-01	s ROLLER, PAPER SUPPLY	529	3-609-394-01	s SPRING, EXTENSION
510	3-609-371-01	s ROLLER, PAPER SEPARATION	530	3-609-500-02	s GUIDE, PAPER EJECT
511	3-609-372-01	s ROLLER, PAPER EJECT	531	3-609-523-01	s FLAP, PAPER EJECT
512	3-609-373-02	o BEARING, ROLLER M	532	3-609-524-01	s ROLLER, SUPPORT PAPER EJECT
513	3-609-374-01	s BEARING, ROLLER B	533	3-609-529-01	s SPRING, ROLLER PAPER EJECT
514	3-609-375-01	s FLAP, PAPER RESTRAIN	534	3-609-700-01	s GEAR, PAPER SUPPLY
515	3-609-376-01	s GUIDE, P SUPPLY&EJECT ROLLER	535	3-611-296-01	o GUIDE, PAPER
516	3-609-377-01	s FLAP, PAPER LEAD	536	3-683-691-01	s SPRING, HELICAL TORSION(SENSOR)
517	3-609-378-01	o SHAFT, PL FLAP	537	4-926-219-02	s RING (DIA.2.3), RETAINING
518	3-609-380-01	s BEARING, SEPARATION ROLLER F			
519	3-609-381-01	s BEARING, SEPARATION ROLLER B			
520	3-609-382-01	o SHAFT, SEPARATION ROLLER PIVOT			

MECHANISM BLOCK (4)

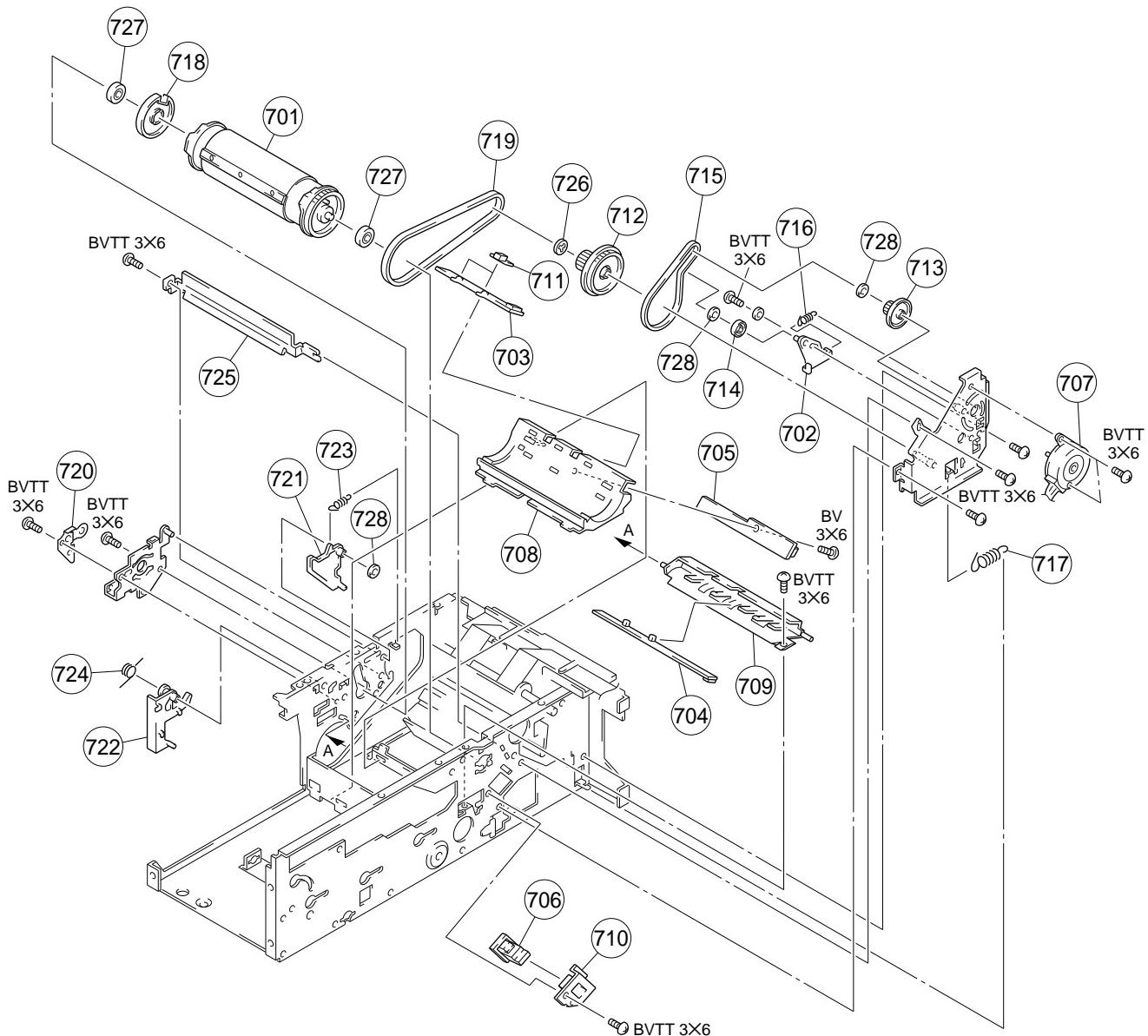


No. Part No. SP Description

601	A-8278-645-A	s LIMITER ASSY, RIBBON T
602	A-8278-646-A	s LIMITER ASSY, RIBBON S
603	X-3679-368-1	o COVER ASSY, PLATEN
604	X-3737-811-1	s WORM BLOCK ASSY
605	1-541-309-11	s MOTOR, L (RF-370C)
606	1-667-000-11	o PRINTED CIRCUIT BOARD, SU-37
607	1-667-005-11	o PRINTED CIRCUIT BOARD, SE-419
608	1-667-007-11	o PRINTED CIRCUIT BOARD, SE-422
609	3-608-985-01	s GUIDE, RIBBON TP
610	3-608-986-01	s GUIDE, RIBBON T1
611	3-609-452-02	s ARM, HOLD PAPER
612	3-609-453-01	o SHAFT, HOLD PAPER
613	3-609-454-01	s ROLLER, HOLD PAPER
614	3-609-455-01	s ROLLER, GUIDE HOLD PAPER
615	3-609-456-01	s SPRING, TORSION(PAPER HOLD)

No. Part No. SP Description

616	3-609-457-02	s STAY, PH ARM
617	3-609-458-01	s LOCK, PLATEN COVER
618	3-609-459-01	s SPRING, TORSION(PC LOCK)
619	3-609-493-01	o SHAFT, PLATEN COVER
620	3-609-494-01	s GUIDE, HEAD HARNESS
621	3-609-498-01	s WHEEL, RIBBON WORM
622	3-609-499-01	s GEAR, IDLER RIBBON
623	3-609-519-01	s SPRING, COMPRESSION (RIBBON B)
624	3-701-445-11	s WASHER, 7
625	3-737-880-01	s CAP, WORM SHAFT
626	3-737-886-01	s TABEL, WORM
627	4-926-218-01	s RING (DIA.2), RETAINING
628	4-926-219-02	s RING (DIA.2.3), RETAINING



No. Part No. SP Description

701 A-8315-909-A s PLATEN BLOCK ASSY
 702 X-3679-359-1 o BRACKET ASSY, IDLER PLATEN
 703 1-666-983-11 o PRINTED CIRCUIT BOARD, SE-423
 704 1-666-984-11 o PRINTED CIRCUIT BOARD, SE-424
 705 1-666-985-11 o PRINTED CIRCUIT BOARD, SE-425

706 1-692-960-11 s SWITCH, PUSH (1 KEY)
 707 1-698-555-21 s MOTOR, STEPPING(PM42S-048-SNA6)
 708 3-608-982-01 o GUIDE, RIBBON U
 709 3-608-984-02 s GUIDE, RIBBON M
 710 3-608-987-02 s HOLDER, RIBBON PUSH-CATCHER

711 3-608-995-01 o COVER, SENSOR
 712 3-609-347-01 s PULLEY, PLATEN
 713 3-609-348-01 s PULLEY, PLATEN GEAR
 714 3-609-349-01 s IDLER, PLATEN
 715 3-609-350-01 s BELT, 120TN15

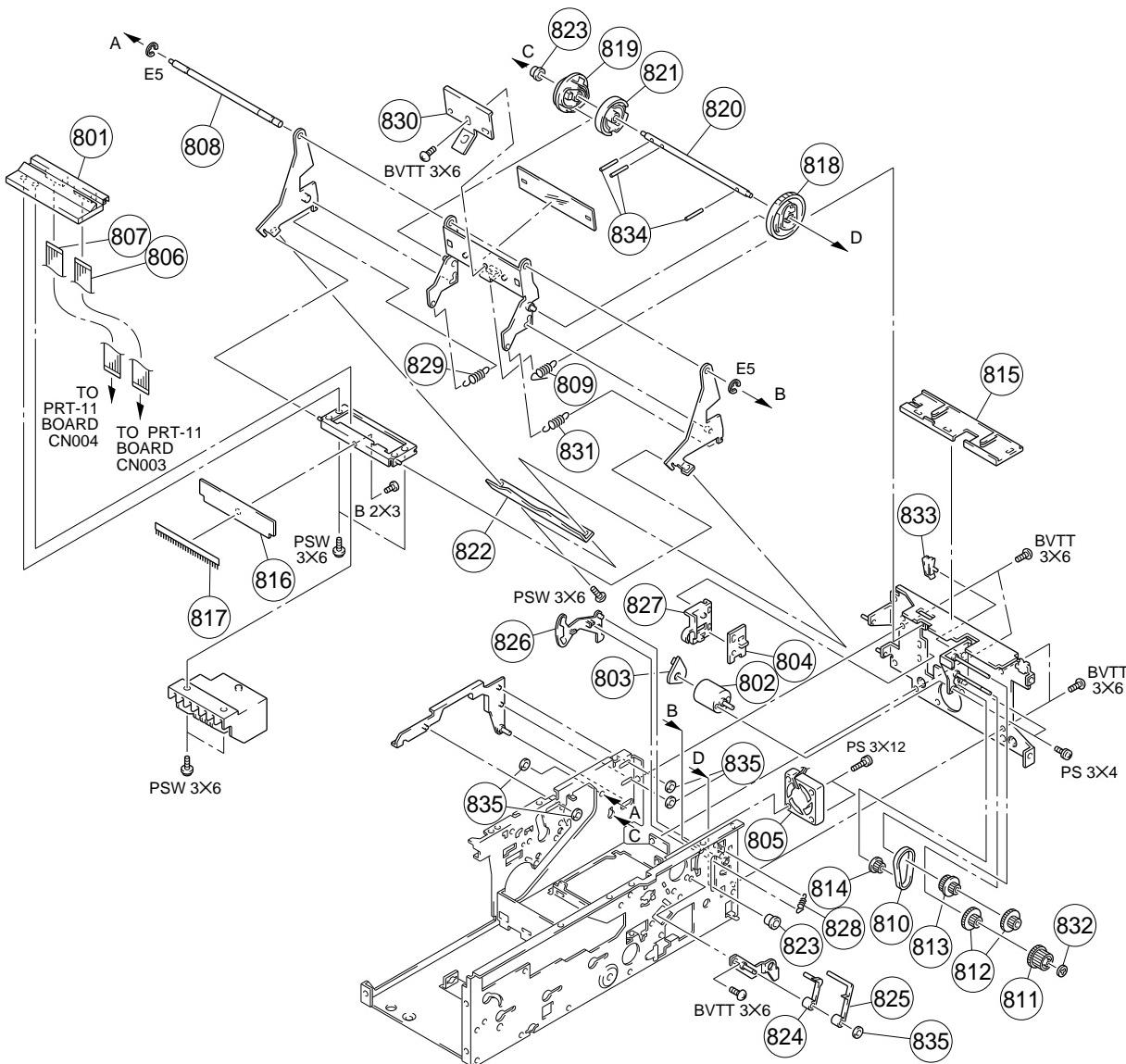
No. Part No. SP Description

716 3-609-351-01 s SPRING, EXTENSION
 717 3-609-352-01 s SPRING, EXTENSION
 718 3-609-477-01 o CAM, TIMING CHUCK
 719 3-609-479-01 s BELT, 160TN15
 720 3-609-482-01 o SPRING, EARTH PLATEN

721 3-609-486-01 s LINK B, CHUCK
 722 3-609-487-01 s STOPPER, GEAR BARCORD
 723 3-609-491-01 s SPRING, EXTENSION
 724 3-609-492-01 s SPRING, TORSION(BC STOPPER)
 725 3-609-495-01 o GUIDE, PLATEN

726 3-650-537-00 o WASHER
 727 3-683-140-01 o FLANGELESS BALL BEARING
 728 4-926-219-02 s RING (DIA.2.3), RETAINING

MECHANISM BLOCK (6)



No.	Part No.	SP Description	No.	Part No.	SP Description
801	1-500-473-11	s HEAD, THERMAL (LV6102)	821	3-609-476-02	s PLATE, SENSOR HEAD
*802	1-541-309-11	s MOTOR, L(RF-370C)	822	3-609-480-01	o PRESSER, HEAD
803	1-666-999-11	o PRINTED CIRCUIT BOARD, SU-36	823	3-609-481-01	s BEARING, CAM HEAD
804	1-667-006-11	o PRINTED CIRCUIT BOARD, SE-420	824	3-609-483-02	s HOOK A, LIMITER
805	1-763-007-11	s FAN, DC	825	3-609-484-01	s HOOK B, LIMITER
806	1-782-738-11	s WIRE, FLAT TYPE (21 CORE)	826	3-609-485-01	s LINK, LIMITER
807	1-782-739-11	s WIRE, FLAT TYPE (19 CORE)	827	3-609-488-01	s HOLDER, SENSOR HEAD
808	3-609-437-01	o SHAFT, LINK HEAD	828	3-609-496-01	s SPRING, EXTENSION
809	3-609-438-01	s SPRING, EXTENSION	829	3-609-763-01	s SPRING, EXTENSION
810	3-609-444-01	s BELT, 79TN15	830	3-611-214-01	s SPRING, HEAD
811	3-609-445-01	s GEAR A, HEAD	831	3-611-226-01	s SPRING, EXTENSION
812	3-609-446-01	s GEAR B, HEAD	832	3-650-537-00	o WASHER
813	3-609-447-01	s PULLEY, GEAR, HEAD	833	3-686-073-01	o CLAMP, HARNESS
*814	3-609-448-01	s PULLEY, HEAD MOTOR	834	3-703-357-09	s PIN (DIA. 1.6 SERISE)
815	3-609-449-01	s CLAMP, HARNESS	835	4-926-219-02	s RING (DIA.2.3), RETAINING
816	3-609-471-01	o GUIDE, RIBBON			
817	3-609-472-01	o ELIMINATOR, STATIC ELETRICITY			
818	3-609-473-02	s CAM B, HEAD			
819	3-609-474-02	s CAM F, HEAD			
820	3-609-475-01	o SHAFT, HEAD CAM			

***NOTE : When replacing the motor of No.802, it is necessary to replace the pulley of No.814.**

8-3. ELECTRICAL PARTS LIST

CN-1520 BOARD

Ref. No.	Part No.	SP Description
lpc	A-8315-870-A	o MOUNTED CIRCUIT BOARD, CN-1520 [for UP-2800/2800P/2850P/2900MD/2950MD]
C1001	1-163-121-00	s CERAMIC, CHIP 150PF 5% 50V
CN101	1-770-699-11	s CONNECTOR, FFC/FPC 16P
R1001	1-216-295-11	s METAL, CHIP 0 5% 1/10W
W1	1-782-742-11	s WIRE, JUMPER (HIGH WINDING)

FMY-21 BOARD

Ref. No.	or Q'ty	Part No.	SP Description
NOTE:		*1 For UP-2800(J) *2 For UP-2800(UC) *3 For UP-2800P(CE) *4 For UP-2850(CE) *5 For UP-2900(J) *6 For UP-2900(UC)	*7 For UP-2950(J) *8 For UP-2950(UC) *9 For UP-2300(J) *10 For UP-2300(UC) *11 For UP-2300P(CE)
lpc		A-8315-855-A	o MOUNTED CIRCUIT BOARD, FMY-21(N1) [for *1,*2,*5,*9,*10]
lpc		A-8315-952-A	o MOUNTED CIRCUIT BOARD, FMY-21(P1) [for *3,*6,*11]
lpc		A-8315-971-A	o MOUNTED CIRCUIT BOARD, FMY-21(P4) [for *4,*8]
lpc		A-8315-976-A	o MOUNTED CIRCUIT BOARD, FMY-21(N4) [for *7]
C1001	1-126-204-11	s ELECT 47uF 20% 16V	
C1002	1-126-204-11	s ELECT 47uF 20% 16V	
C1003	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V	
C1004	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V	
C1005	1-126-204-11	s ELECT 47uF 20% 16V	
C1006	1-126-205-11	s ELECT 47uF 20% 6.3V	
C1007	1-162-915-11	s CERAMIC, CHIP 10PF 0.5PF 50V	
C1008	1-164-156-11	s CERAMIC 0.1uF 25V	
C1009	1-164-156-11	s CERAMIC 0.1uF 25V	
C1010	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V	
C1011	1-164-156-11	s CERAMIC 0.1uF 25V	
C1012	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V	
C1013	1-164-156-11	s CERAMIC 0.1uF 25V	
C1014	1-126-204-11	s ELECT 47uF 20% 16V	
C1015	1-126-205-11	s ELECT 47uF 20% 6.3V	
C1016	1-162-915-11	s CERAMIC, CHIP 10PF 0.5PF 50V	
C1017	1-164-156-11	s CERAMIC 0.1uF 25V	
C1018	1-164-156-11	s CERAMIC 0.1uF 25V	
C1019	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V	
C1020	1-164-156-11	s CERAMIC 0.1uF 25V	
C1021	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V	
C1022	1-164-156-11	s CERAMIC 0.1uF 25V	
C1023	1-126-204-11	s ELECT 47uF 20% 16V	
C1024	1-126-205-11	s ELECT 47uF 20% 6.3V	
C1025	1-162-915-11	s CERAMIC, CHIP 10PF 0.5PF 50V	
C1026	1-164-156-11	s CERAMIC 0.1uF 25V	
C1027	1-164-156-11	s CERAMIC 0.1uF 25V	
C1028	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V	
C1029	1-164-156-11	s CERAMIC 0.1uF 25V	
C1030	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V	
C1031	1-164-156-11	s CERAMIC 0.1uF 25V	
C1032	1-164-156-11	s CERAMIC 0.1uF 25V	
C1033	1-164-156-11	s CERAMIC 0.1uF 25V	
C1034	1-164-156-11	s CERAMIC 0.1uF 25V	
C1035	1-126-205-11	s ELECT 47uF 20% 6.3V	
C1036	1-164-156-11	s CERAMIC 0.1uF 25V	
C1037	1-164-156-11	s CERAMIC 0.1uF 25V	
C1038	1-164-156-11	s CERAMIC 0.1uF 25V	
C1039	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V	
C1040	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V	
C1041	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V	
C1042	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V	
C2001	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V	
C2002	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V	
C2003	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V	

(FMY-21 BOARD)

Ref. No.
or Q'ty Part No. SP Description

C2004 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
 C2005 1-164-156-11 s CERAMIC 0.1uF 25V
 C2006 1-164-156-11 s CERAMIC 0.1uF 25V
 C2007 1-126-393-11 s ELECT 33uF 20% 10V
 C2008 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V

C2009 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
 C2010 1-164-156-11 s CERAMIC 0.1uF 25V
 C2011 1-164-156-11 s CERAMIC 0.1uF 25V
 C2012 1-126-393-11 s ELECT 33uF 20% 10V
 C2013 1-164-156-11 s CERAMIC 0.1uF 25V

C2016 1-126-205-11 s ELECT 47uF 20% 6.3V
 C2017 1-164-156-11 s CERAMIC 0.1uF 25V
 C2018 1-164-156-11 s CERAMIC 0.1uF 25V
 C2019 1-126-205-11 s ELECT 47uF 20% 6.3V
 C2020 1-126-205-11 s ELECT 47uF 20% 6.3V

C2021 1-164-156-11 s CERAMIC 0.1uF 25V
 C2022 1-164-156-11 s CERAMIC 0.1uF 25V
 C2023 1-164-156-11 s CERAMIC 0.1uF 25V
 C2024 1-164-156-11 s CERAMIC 0.1uF 25V
 C2025 1-164-156-11 s CERAMIC 0.1uF 25V

C2026 1-164-156-11 s CERAMIC 0.1uF 25V
 C2027 1-164-156-11 s CERAMIC 0.1uF 25V
 C2028 1-164-156-11 s CERAMIC 0.1uF 25V
 C2029 1-164-156-11 s CERAMIC 0.1uF 25V
 C3001 1-126-393-11 s ELECT 33uF 20% 10V

C3002 1-164-156-11 s CERAMIC 0.1uF 25V
 C3003 1-126-393-11 s ELECT 33uF 20% 10V
 C3004 1-164-156-11 s CERAMIC 0.1uF 25V
 C3005 1-162-964-11 s CERAMIC 0.001uF 10% 50V
 C3006 1-126-393-11 s ELECT 33uF 20% 10V

C3007 1-164-156-11 s CERAMIC 0.1uF 25V
 C3008 1-162-915-11 s CERAMIC, CHIP 10PF 0.5PF 50V
 C3009 1-162-915-11 s CERAMIC, CHIP 10PF 0.5PF 50V
 C3010 1-162-964-11 s CERAMIC 0.001uF 10% 50V
 C3011 1-164-156-11 s CERAMIC 0.1uF 25V

C3012 1-164-156-11 s CERAMIC 0.1uF 25V
 C3013 1-126-393-11 s ELECT 33uF 20% 10V
 C3014 1-164-156-11 s CERAMIC 0.1uF 25V
 C3017 1-164-156-11 s CERAMIC 0.1uF 25V
 C3018 1-164-156-11 s CERAMIC 0.1uF 25V

C3019 1-164-156-11 s CERAMIC 0.1uF 25V
 C3025 1-164-156-11 s CERAMIC 0.1uF 25V
 C3029 1-164-156-11 s CERAMIC 0.1uF 25V
 C3030 1-164-156-11 s CERAMIC 0.1uF 25V
 C3032 1-162-964-11 s CERAMIC 0.001uF 10% 50V

C3034 1-164-156-11 s CERAMIC 0.1uF 25V
 C3035 1-164-156-11 s CERAMIC 0.1uF 25V
 C3036 1-164-156-11 s CERAMIC 0.1uF 25V
 C3037 1-164-156-11 s CERAMIC 0.1uF 25V
 C3038 1-164-156-11 s CERAMIC 0.1uF 25V

C3039 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
 C3040 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
 C3041 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
 C3042 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
 C3043 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V

C3044 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
 C3045 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
 C3046 1-162-927-11 s CERAMIC, CHIP 100PF 5% 50V
 C3047 1-126-393-11 s ELECT 33uF 20% 10V

(FMY-21 BOARD)

Ref. No.
or Q'ty Part No. SP Description

C3048 1-126-393-11 s ELECT 33uF 20% 10V
 C4001 1-126-393-11 s ELECT 33uF 20% 10V
 C4002 1-126-393-11 s ELECT 33uF 20% 10V
 C4003 1-164-156-11 s CERAMIC 0.1uF 25V
 C4004 1-164-156-11 s CERAMIC 0.1uF 25V

C4005 1-126-393-11 s ELECT 33uF 20% 10V
 C4006 1-126-393-11 s ELECT 33uF 20% 10V
 C5001 1-126-393-11 s ELECT 33uF 20% 10V
 C5002 1-164-156-11 s CERAMIC 0.1uF 25V
 C5003 1-126-393-11 s ELECT 33uF 20% 10V

C5004 1-164-156-11 s CERAMIC 0.1uF 25V
 C5005 1-126-393-11 s ELECT 33uF 20% 10V
 C5006 1-164-156-11 s CERAMIC 0.1uF 25V
 C5007 1-126-393-11 s ELECT 33uF 20% 10V
 C5008 1-164-156-11 s CERAMIC 0.1uF 25V

C5009 1-164-156-11 s CERAMIC 0.1uF 25V
 C5010 1-126-393-11 s ELECT 33uF 20% 10V
 C5011 1-164-156-11 s CERAMIC 0.1uF 25V
 C5012 1-164-156-11 s CERAMIC 0.1uF 25V
 C5013 1-126-393-11 s ELECT 33uF 20% 10V

C5014 1-164-156-11 s CERAMIC 0.1uF 25V
 C5015 1-164-156-11 s CERAMIC 0.1uF 25V
 C5016 1-126-393-11 s ELECT 33uF 20% 10V
 C5017 1-164-156-11 s CERAMIC 0.1uF 25V
 C5018 1-164-156-11 s CERAMIC 0.1uF 25V

C5019 1-126-393-11 s ELECT 33uF 20% 10V
 C5020 1-164-156-11 s CERAMIC 0.1uF 25V
 C5021 1-164-156-11 s CERAMIC 0.1uF 25V
 C5022 1-126-393-11 s ELECT 33uF 20% 10V
 C5023 1-164-156-11 s CERAMIC 0.1uF 25V

C5024 1-164-156-11 s CERAMIC 0.1uF 25V
 CN1001 1-778-331-11 s CONNECTOR, FFC/FPC 16P
 CN1002 1-774-287-11 s CONNECTOR, FFC/FPC 22P
 CN2001 1-779-993-11 s PIN, CONNECTOR 5P
 CN3001 1-774-771-11 s CONNECTOR, FFC/FPC 14P
 CN3002 1-779-936-11 s CONNECTOR, FFC/FPC 18P

CNI103 1-526-660-21 o SOCKET, IC 32P
 IC103 8-759-479-39 o IC MX27C1000-FMY21V1.00
 IC1001 8-752-337-04 s IC CXD1176Q
 IC1002 8-752-337-04 s IC CXD1176Q
 IC1003 8-752-337-04 s IC CXD1176Q
 IC1005 8-752-338-46 s IC CXD1178Q

IC2001 8-759-926-77 s IC SN74HC541ANS
 IC2002 8-759-927-29 s IC SN74HCU04ANS
 IC2003 8-759-473-67 s IC PQ3RF33
 IC2004 8-759-423-44 s IC MC74F04MEL
 IC2005 8-759-926-52 s IC SN74HC257ANS

IC2006 8-759-287-50 s IC CXD8932Q
 IC2007 8-759-284-24 s IC MC74F74M-EL
 IC2008 8-759-035-90 s IC SC7S02FEL
 IC2009 8-759-297-58 s IC DS1000Z-75
 IC2010 8-759-297-60 s IC DS1000Z-75

IC2011 8-759-284-24 s IC MC74F74M-EL
 IC2012 8-759-297-58 s IC DS1000Z-75
 IC2013 8-759-284-24 s IC MC74F74M-EL
 IC3002 8-759-925-90 s IC SN74HC74ANS
 IC3003 8-759-925-85 s IC SN74HC32ANS

(FMY-21 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC3005	8-759-926-77 s	IC SN74HC541ANS
IC3006	8-759-473-64 s	IC HD6433040S-A00F
IC3008	8-759-925-76 s	IC SN74HC08NS
IC3010	8-759-926-11 s	IC SN74HC138ANS
IC3011	8-759-925-74 s	IC SN74HC04ANS
IC3012	8-759-194-80 s	IC CXD8869Q
IC3013	8-759-194-80 s	IC CXD8869Q
IC3017	8-759-479-12 o	IC MX27C4000MC-12-UP28S
IC3018	8-759-479-11 o	IC MX27C4000MC-12-UP28M
IC3019	8-759-926-82 s	IC SN74HC574ANS
IC3020	8-759-926-82 s	IC SN74HC574ANS
IC3021	8-759-193-17 s	IC CXD8868Q
IC4001	8-759-473-65 s	IC CXD8665Q
IC5001	8-759-473-66 s	IC HM51W4265CLTT-6[for *4,*7,*8]
IC5002	8-759-473-66 s	IC HM51W4265CLTT-6[for *4,*7,*8]
IC5003	8-759-473-66 s	IC HM51W4265CLTT-6
IC5004	8-759-473-66 s	IC HM51W4265CLTT-6[for *4,*8]
IC5005	8-759-473-66 s	IC HM51W4265CLTT-6[for *4,*7,*8]
IC5006	8-759-473-66 s	IC HM51W4265CLTT-6[for *4,*7,*8]
IC5007	8-759-473-66 s	IC HM51W4265CLTT-6 [for *3,*4,*6,*7,*8,*11]
IC5008	8-759-473-66 s	IC HM51W4265CLTT-6[for *3,*6,*11]
IC5009	8-759-473-66 s	IC HM51W4265CLTT-6[for *4,*8]
IC5010	8-759-473-66 s	IC HM51W4265CLTT-6
IC5011	8-759-473-66 s	IC HM51W4265CLTT-6 [for *3,*4,*6,*7,*8,*11]
IC5012	8-759-473-66 s	IC HM51W4265CLTT-6[for *4,*7,*8]
IC5013	8-759-473-66 s	IC HM51W4265CLTT-6[for *4,*8]
IC5014	8-759-473-66 s	IC HM51W4265CLTT-6[for *4,*8]
IC5015	8-759-473-66 s	IC HM51W4265CLTT-6
L1001	1-410-369-11 s	INDUCTOR CHIP 1uH
L1002	1-410-369-11 s	INDUCTOR CHIP 1uH
L2001	1-424-653-11 s	COIL, CHOKER 10uH
L2002	1-424-653-11 s	COIL, CHOKER 10uH
L2003	1-424-653-11 s	COIL, CHOKER 10uH
Q1001 - Q1006	8-729-120-28 s	TRANSISTOR 2SC1623-L5L6
Q1007	8-729-901-00 s	TRANSISTOR DTC124EK
R1001	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1002	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R1003	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R1004	1-218-285-11 s	METAL, CHIP 75 5% 1/16W
R1006	1-216-805-11 s	METAL, CHIP 47 5% 1/16W
R1007	1-216-295-11 s	METAL, CHIP 0 5% 1/10W
R1008	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1009	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R1010	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R1011	1-218-285-11 s	METAL, CHIP 75 5% 1/16W
R1013	1-216-805-11 s	METAL, CHIP 47 5% 1/16W
R1014	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1015	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R1016	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W

(FMY-21 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R1017	1-218-285-11 s	METAL, CHIP 75 5% 1/16W
R1019	1-216-805-11 s	METAL, CHIP 47 5% 1/16W
R1020	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1021	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1022	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1023	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1024	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1025	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R1026	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R1027	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R1028	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R1029	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R1030	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R1031	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R1032	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R1035	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R1036	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R1062	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
R1063	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R1064	1-216-814-11 s	METAL, CHIP 270 5% 1/16W
R1065	1-216-816-11 s	METAL, CHIP 390 5% 1/16W
R1067	1-216-295-11 s	METAL, CHIP 0 5% 1/10W
R1072	1-216-295-11 s	METAL, CHIP 0 5% 1/10W
R1110	1-216-295-11 s	METAL, CHIP 0 5% 1/10W
R1111	1-216-295-11 s	METAL, CHIP 0 5% 1/10W
R2001	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R2002	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R2003	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R2004	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R2005	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R2006	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R2007	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R2008	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R2009	1-216-857-11 s	METAL, CHIP 1M 5% 1/16W
R2010	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R2019	1-216-295-11 s	METAL, CHIP 0 5% 1/10W
R2020	1-216-295-11 s	METAL, CHIP 0 5% 1/10W
R2021	1-216-295-11 s	METAL, CHIP 0 5% 1/10W
R2032	1-216-295-11 s	METAL, CHIP 0 5% 1/10W
R2033	1-216-295-11 s	METAL, CHIP 0 5% 1/10W
R3002 - R3015	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R3016	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R3017 - R3028	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R3028	1-216-295-11 s	METAL, CHIP 0 5% 1/10W
R3031 - R3053	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R3054	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R3055	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R3056	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R3057	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R3058	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R3060	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R3061	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R3062	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R3063	1-216-803-11 s	METAL, CHIP 33 5% 1/16W
R3064	1-216-803-11 s	METAL, CHIP 33 5% 1/16W

(FMY-21 BOARD)

Ref. No.
or Q'ty Part No. SP Description

R3065 1-216-803-11 s METAL, CHIP 33 5% 1/16W
R3066 1-216-803-11 s METAL, CHIP 33 5% 1/16W
R3067 1-216-803-11 s METAL, CHIP 33 5% 1/16W
R3068 1-216-803-11 s METAL, CHIP 33 5% 1/16W
R3069 1-216-803-11 s METAL, CHIP 33 5% 1/16W

R3070 1-216-803-11 s METAL, CHIP 33 5% 1/16W
R3071 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R3072 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R3073 1-216-803-11 s METAL, CHIP 33 5% 1/16W
R3074 1-216-833-11 s METAL, CHIP 10K 5% 1/16W

R3075 1-216-803-11 s METAL, CHIP 33 5% 1/16W
R3076 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R3078 1-216-803-11 s METAL, CHIP 33 5% 1/16W
R3079 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R3080 1-216-803-11 s METAL, CHIP 33 5% 1/16W

R3081 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R3082 1-216-803-11 s METAL, CHIP 33 5% 1/16W
R3083 1-216-803-11 s METAL, CHIP 33 5% 1/16W
R3084 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R3085 1-216-833-11 s METAL, CHIP 10K 5% 1/16W

R3086 1-216-803-11 s METAL, CHIP 33 5% 1/16W
R3087 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R3088 1-216-803-11 s METAL, CHIP 33 5% 1/16W
R3089 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R3090 1-216-803-11 s METAL, CHIP 33 5% 1/16W

R3091 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R3092 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R3093 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R3094 1-216-833-11 s METAL, CHIP 10K 5% 1/16W
R3095 1-216-833-11 s METAL, CHIP 10K 5% 1/16W

R3097 1-216-295-11 s METAL, CHIP 0 5% 1/10W
R3103 1-216-295-11 s METAL, CHIP 0 5% 1/10W
R3107 1-216-295-11 s METAL, CHIP 0 5% 1/10W
R3117 1-216-295-11 s METAL, CHIP 0 5% 1/10W
R3118 1-216-295-11 s METAL, CHIP 0 5% 1/10W

R4001 1-216-797-11 s METAL, CHIP 10 5% 1/16W
R4002 1-216-797-11 s METAL, CHIP 10 5% 1/16W
R4008 - R4116
1-216-797-11 s METAL, CHIP 10 5% 1/16W

R4117 1-216-295-11 s METAL, CHIP 0 5% 1/10W
R4122 1-216-295-11 s METAL, CHIP 0 5% 1/10W
R5001 1-216-295-11 s METAL, CHIP 0 5% 1/10W
[for *4, *7, *8]
R5002 1-216-295-11 s METAL, CHIP 0 5% 1/10W
[for *1, *2, *3, *5, *6, *9, *10, *11]
R5003 1-216-295-11 s METAL, CHIP 0 5% 1/10W
[for *3, *4, *6, *8, *11]

R5004 1-216-295-11 s METAL, CHIP 0 5% 1/10W
[for *1, *2, *5, *7, *9, *10]
R5005 1-216-295-11 s METAL, CHIP 0 5% 1/10W
R5006 1-216-295-11 s METAL, CHIP 0 5% 1/10W
R5007 - R5135
1-216-797-11 s METAL, CHIP 10 5% 1/16W

S101 1-570-909-11 s SWITCH, PUSH

X1001 1-767-664-21 s CRYSTAL, 15.75032Hz
X3001 1-760-558-11 o CRYSTAL, 14.7456MHz

IF-672 BOARD

Ref. No.
or Q'ty Part No. SP Description

NOTE: *1 For UP-2800(J) *5 For UP-2900(J)
*2 For UP-2800(UC) *6 For UP-2900(UC)
*3 For UP-2800P(CE) *7 For UP-2950(J)
*4 For UP-2850(CE) *8 For UP-2950(UC)

1pc A-8315-863-A o MOUNTED CIRCUIT BOARD, IF-672
[for *1,*2,*3,*4,*5,*7]
1pc A-8315-954-A o MOUNTED CIRCUIT BOARD, IF-672(NP)
[for *6,*8]

CN101 1-774-288-11 s CONNECTOR, FFC/FPC 22P
CN201 1-774-757-11 s CONNECTOR, FFC/FPC 15P

D101 - D128
8-719-422-97 s DIODE MA8091-M

D201 8-719-801-78 s DIODE 1SS184

J101 1-770-081-12 s CONNECTOR, BNC
J105 1-573-590-13 s CONNECTOR, 4P
J106 1-770-080-12 s CONNECTOR, BNC
J201 1-770-081-12 s CONNECTOR, BNC
J205 1-573-590-13 s CONNECTOR, 4P

J206 1-770-080-12 s CONNECTOR, BNC

Q201 1-801-806-11 s TRANSISTOR DTC144EKA
Q202 8-729-140-75 s TRANSISTOR 2SD999-CLCK

R101 - R114
1-208-762-11 s METAL, CHIP 270K 0.50% 1/10W

R201 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R202 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
[For *6,*8]

S201 1-572-624-11 s SWITCHI, SLIDE[For *6,*8]

RL101 - RL107
1-515-622-11 s RELAY

IF-710 BOARD[FOR UP-2300/2300P]

Ref. No.
or Q'ty Part No. SP Description

1pc A-8316-221-A o MOUNTED CIRCUIT BOARD, IF-710
[for UP-2300/UP-2300P]

C109 - C114, C123 - C128
8-719-422-97 s DIODE MA8091-M

CN101 1-774-288-11 s CONNECTOR, FFC/FPC 22P
CN201 1-774-757-11 s CONNECTOR, FFC/FPC 15P

D201 8-719-801-78 s DIODE 1SS184

J105 1-573-590-13 s CONNECTOR, 4P
J106 1-770-080-12 s CONNECTOR, BNC 1P
J205 1-573-590-13 s CONNECTOR, 4P
J206 1-770-080-12 s CONNECTOR, BNC 1P

Q201 1-801-806-11 s TRANSISTOR DTC144EKA

Q202 8-729-140-75 s TRANSISTOR 2SD999-CLK

R109 - R114
1-216-029-00 s METAL, CHIP 150 5% 1/10W
R201 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

RL105 1-515-622-11 s RELAY
RL106 1-515-622-11 s RELAY
RL107 1-515-622-11 s RELAY

KY-402 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc A-8315-861-A o MOUNTED CIRCUIT BOARD, KY-402

CN1 1-779-934-11 s CONNECTOR, FFC/FPC 9P

D1 8-719-041-51 s DIODE GL1EG111

S110 1-571-760-11 s SWITCH, KEY BOARD
S111 1-571-760-11 s SWITCH, KEY BOARD
S120 1-571-760-11 s SWITCH, KEY BOARD
S121 1-571-760-11 s SWITCH, KEY BOARD
S122 1-571-760-11 s SWITCH, KEY BOARD

S130 1-571-760-11 s SWITCH, KEY BOARD
S131 1-571-760-11 s SWITCH, KEY BOARD
S132 1-571-760-11 s SWITCH, KEY BOARD
S133 1-571-760-11 s SWITCH, KEY BOARD

KY-401 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc A-8315-859-A o MOUNTED CIRCUIT BOARD, KY-401

C1 1-110-449-11 s ELECT, CHIP 47uF 20% 6.3V

CN1 1-770-697-11 s CONNECTOR, FFC/FPC 14P

D1 8-719-027-38 s DIODE PG1101W-TR
D2 8-719-951-14 s DIODE PG1101W-TR

IC1 8-748-035-08 s IC SBX8035-H

R1 1-216-017-91 s METAL 47 5% 1/10W

S100 1-572-595-11 s SWITCH, PUSH
S101 1-572-595-11 s SWITCH, PUSH
S102 1-572-595-11 s SWITCH, PUSH
S103 1-572-595-11 s SWITCH, PUSH
S104 1-572-595-11 s SWITCH, PUSH

S105 1-572-595-11 s SWITCH, PUSH

PRT-11 BOARD

(PRT-11 BOARD)

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8315-868-A o	OUNTED CIRCUIT BOARD, PRT-11	C171	1-163-038-91 s	CERAMIC 0.1uF 25V
C101	1-163-038-91 s	CERAMIC 0.1uF 25V	C172	1-163-275-11 s	CERAMIC 0.001uF 5% 50V
C102	1-163-038-91 s	CERAMIC 0.1uF 25V	C173	1-163-275-11 s	CERAMIC 0.001uF 5% 50V
C103	1-163-038-91 s	CERAMIC 0.1uF 25V	C174	1-163-038-91 s	CERAMIC 0.1uF 25V
C104	1-163-038-91 s	CERAMIC 0.1uF 25V	C176	1-163-275-11 s	CERAMIC 0.001uF 5% 50V
C105	1-128-403-11 s	ELECT 47uF 20% 35V	C177	1-163-038-91 s	CERAMIC 0.1uF 25V
C106	1-163-133-00 s	CERAMIC, CHIP 470PF 5% 50V	C178	1-128-397-21 s	ELECT 100uF 20% 16V
C107	1-163-133-00 s	CERAMIC, CHIP 470PF 5% 50V	C201	1-163-038-91 s	CERAMIC 0.1uF 25V
C108	1-163-133-00 s	CERAMIC, CHIP 470PF 5% 50V	C202	1-163-275-11 s	CERAMIC 0.001uF 5% 50V
C109	1-163-133-00 s	CERAMIC, CHIP 470PF 5% 50V	C203	1-163-275-11 s	CERAMIC 0.001uF 5% 50V
C110	1-128-403-11 s	ELECT 47uF 20% 35V	C204	1-163-275-11 s	CERAMIC 0.001uF 5% 50V
C111 - C120	1-163-133-00 s	CERAMIC, CHIP 470PF 5% 50V	C205	1-163-275-11 s	CERAMIC 0.001uF 5% 50V
C121	1-164-161-11 s	CERAMIC, CHIP 0.0022uF 10% 100V	C207	1-163-038-91 s	CERAMIC 0.1uF 25V
C122	1-164-161-11 s	CERAMIC, CHIP 0.0022uF 10% 100V	C208	1-163-038-91 s	CERAMIC 0.1uF 25V
C123 - C131	1-163-133-00 s	CERAMIC, CHIP 470PF 5% 50V	C209	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C132	1-126-394-11 s	ELECT, CHIP 10uF 20% 16V	C210	1-163-038-91 s	CERAMIC 0.1uF 25V
C133	1-126-394-11 s	ELECT, CHIP 10uF 20% 16V	C211	1-104-608-11 s	ELECT 33uF 20% 6.3V
C134	1-128-397-21 s	ELECT 100uF 20% 16V	C212	1-163-235-11 s	CERAMIC, CHIP 22PF 5% 50V
C135	1-163-038-91 s	CERAMIC 0.1uF 25V	C213	1-163-235-11 s	CERAMIC, CHIP 22PF 5% 50V
C136	1-163-235-11 s	CERAMIC, CHIP 22PF 5% 50V	C216	1-163-038-91 s	CERAMIC 0.1uF 25V
C137	1-163-235-11 s	CERAMIC, CHIP 22PF 5% 50V	C217	1-104-608-11 s	ELECT 33uF 20% 6.3V
C138	1-163-038-91 s	CERAMIC 0.1uF 25V	C218	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C139	1-163-038-91 s	CERAMIC 0.1uF 25V	C219	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C140	1-163-038-91 s	CERAMIC 0.1uF 25V	C220	1-104-608-11 s	ELECT 33uF 20% 6.3V
C142	1-163-038-91 s	CERAMIC 0.1uF 25V	C221	1-163-038-91 s	CERAMIC 0.1uF 25V
C143	1-128-397-21 s	ELECT 100uF 20% 16V	C222	1-163-038-91 s	CERAMIC 0.1uF 25V
C144	1-128-397-21 s	ELECT 100uF 20% 16V	C225	1-128-235-11 s	ELECT 0.47uF 20% 50V
C145	1-104-608-11 s	ELECT 33uF 20% 6.3V	C226	1-163-038-91 s	CERAMIC 0.1uF 25V
C146	1-104-608-11 s	ELECT 33uF 20% 6.3V	C227	1-104-608-11 s	ELECT 33uF 20% 6.3V
C147	1-163-038-91 s	CERAMIC 0.1uF 25V	C228	1-163-113-00 s	CERAMIC, CHIP 68PF 5% 50V
C148	1-128-397-21 s	ELECT 100uF 20% 16V	C229	1-163-038-91 s	CERAMIC 0.1uF 25V
C149	1-104-608-11 s	ELECT 33uF 20% 6.3V	C230	1-104-608-11 s	ELECT 33uF 20% 6.3V
C150	1-163-038-91 s	CERAMIC 0.1uF 25V	C231	1-164-161-11 s	CERAMIC, CHIP 0.0022uF 10% 100V
C151	1-163-038-91 s	CERAMIC 0.1uF 25V	CN1	1-564-729-11 s	PIN, CONNECTOR 13P
C152	1-128-397-21 s	ELECT 100uF 20% 16V	CN2	1-564-730-11 o	PIN, CONNECTOR 14P
C153	1-128-403-11 s	ELECT 47uF 20% 35V	CN3	1-774-333-11 s	CONNECTOR, FFC/FPC 21P
C154	1-163-038-91 s	CERAMIC 0.1uF 25V	CN4	1-779-937-11 s	CONNECTOR, FFC/FPC 19P
C155	1-163-038-91 s	CERAMIC 0.1uF 25V	CN5	1-779-935-11 s	CONNECTOR, FFC/FPC 9P
C156	1-163-038-91 s	CERAMIC 0.1uF 25V	CN6	1-770-697-11 s	CONNECTOR, FFC/FPC 14P
C157	1-128-403-11 s	ELECT 47uF 20% 35V	CN7	1-770-697-11 s	CONNECTOR, FFC/FPC 14P
C158	1-163-038-91 s	CERAMIC 0.1uF 25V	CN8	1-770-705-11 s	CONNECTOR, FFC/FPC 22P
C159	1-163-038-91 s	CERAMIC 0.1uF 25V	CN9	1-770-695-11 s	CONNECTOR, FFC/FPC 12P
C160	1-163-038-91 s	CERAMIC 0.1uF 25V	CN10	1-774-771-11 s	CONNECTOR, FFC/FPC 14P
C161	1-163-038-91 s	CERAMIC 0.1uF 25V	CN11	1-770-470-21 o	CONNECTOR (PC BOARD) 6P
C162	1-163-038-91 s	CERAMIC 0.1uF 25V	CN12	1-770-160-21 s	PIN, CONNECTOR 2P
C163	1-128-393-11 s	ELECT 100uF 20% 10V	CN13	1-770-469-21 o	CONNECTOR (PC BOARD) 2P
C164	1-163-038-91 s	CERAMIC 0.1uF 25V	CN14	1-770-469-21 o	CONNECTOR (PC BOARD) 2P
C165	1-128-393-11 s	ELECT 100uF 20% 10V	CN15	1-573-290-21 s	PIN, CONNECTOR (1.5MM) (SMD)4P
C166	1-163-038-91 s	CERAMIC 0.1uF 25V	CN16	1-770-160-21 s	PIN, CONNECTOR 2P
C167	1-163-038-91 s	CERAMIC 0.1uF 25V	CN17	1-770-160-21 s	PIN, CONNECTOR 2P
C168	1-163-038-91 s	CERAMIC 0.1uF 25V	CN18	1-580-055-21 s	PIN, CONNECTOR 2P
C169	1-163-038-91 s	CERAMIC 0.1uF 25V	CNI117	1-526-660-21 o	SOCKET, IC 32P
C170	1-163-038-91 s	CERAMIC 0.1uF 25V	CNI206	1-526-660-21 o	SOCKET, IC 32P
			D101	8-719-200-02 s	DIODE 10E-2
			D102	8-719-200-02 s	DIODE 10E-2
			D104	8-719-200-02 s	DIODE 10E-2

(PRT-11 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D223	8-719-016-74	s DIODE 1SS352
IC101	8-759-322-54	s IC SLA7024M
IC102	8-759-926-49	s IC SN74HC245ANS
IC103	8-759-926-49	s IC SN74HC245ANS
IC104	8-759-926-49	s IC SN74HC245ANS
IC105	8-759-157-19	s IC MB3863PF-G-BND
IC106	8-759-100-95	s IC UPC324G2
IC107	8-759-178-20	s IC M62354FP
IC108	8-759-926-49	s IC SN74HC245ANS
IC109	8-759-925-76	s IC SN74HC08NS
IC110	8-759-157-19	s IC MB3863PF-G-BND
IC111	8-759-926-21	s IC SN74HC161ANS
IC112	8-759-254-94	s IC HD6413378F10
IC113	8-759-925-80	s IC SN74HC14ANS
IC114	8-759-925-90	s IC SN74HC74ANS
IC115	8-759-148-14	s IC UPD71055GB-3B4
IC117	8-759-479-40	o IC MX27C1000-PRT11V1.0
IC118	8-759-983-69	s IC LM358PS
IC119	8-759-926-11	s IC SN74HC138ANS
IC201	8-759-925-76	s IC SN74HC08NS
IC202	8-759-925-85	s IC SN74HC32ANS
IC204	8-759-926-82	s IC SN74HC574ANS
IC206	8-759-479-41	o IC MX27C2000DC-12-GAM
IC207	8-759-479-07	s IC CXD8653Q
IC208	8-759-476-50	s IC CXD8636Q
IC209	8-759-925-72	s IC SN74HC02ANS
IC210	8-759-189-55	s IC CXD8865R
L101	1-543-948-11	s BEAD, FERRITE (CHIP)
L103	1-543-948-11	s BEAD, FERRITE (CHIP)
L105	1-543-948-11	s BEAD, FERRITE (CHIP)
L107 - L125	1-543-948-11	s BEAD, FERRITE (CHIP)
L127	1-543-948-11	s BEAD, FERRITE (CHIP)
L129	1-543-948-11	s BEAD, FERRITE (CHIP)
L131	1-543-948-11	s BEAD, FERRITE (CHIP)
L133	1-424-653-11	s COIL, CHOKE 10uH
L134	1-424-653-11	s COIL, CHOKE 10uH
L135	1-424-653-11	s COIL, CHOKE 10uH
L137	1-408-397-00	s INDUCTOR 1uH
L141	1-408-397-00	s INDUCTOR 1uH
L143	1-408-397-00	s INDUCTOR 1uH
L144	1-408-397-00	s INDUCTOR 1uH
L145	1-408-397-00	s INDUCTOR 1uH
L146	1-408-397-00	s INDUCTOR 1uH
L201 - L212	1-543-948-11	s BEAD, FERRITE (CHIP)
L214	1-543-948-11	s BEAD, FERRITE (CHIP)
L215	1-543-948-11	s BEAD, FERRITE (CHIP)
L216	1-424-653-11	s COIL, CHOKE 10uH
L217	1-424-653-11	s COIL, CHOKE 10uH
L219	1-543-948-11	s BEAD, FERRITE (CHIP)
L221	1-543-948-11	s BEAD, FERRITE (CHIP)
L222	1-543-948-11	s BEAD, FERRITE (CHIP)
L225	1-543-948-11	s BEAD, FERRITE (CHIP)
L226	1-543-948-11	s BEAD, FERRITE (CHIP)
L229	1-543-948-11	s BEAD, FERRITE (CHIP)

(PRT-11 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
L230	1-543-948-11	s BEAD, FERRITE (CHIP)
L233	1-543-948-11	s BEAD, FERRITE (CHIP)
L236	1-543-948-11	s BEAD, FERRITE (CHIP)
L240	1-543-948-11	s BEAD, FERRITE (CHIP)
L241 - L245	1-408-397-00	s INDUCTOR 1uH
Q101	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q102	8-729-140-75	s TRANSISTOR 2SD999-CLCK
Q103	8-729-101-07	s TRANSISTOR 2SB798
Q104	8-729-017-80	s TRANSISTOR 2SD992-Z
Q105	8-729-114-48	s TRANSISTOR 2SB962-Z-P
Q107	8-729-114-48	s TRANSISTOR 2SB962-Z-P
Q110	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q111	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
R101	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R102	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R103	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R104	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R105	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R106 - R115	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R116	1-216-089-91	s METAL 47K 5% 1/10W
R117	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R118	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R119	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R120	1-216-373-11	s METAL 2.2 5% 2W
R121	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R122	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R123	1-216-373-11	s METAL 2.2 5% 2W
R124	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R125 - R132	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R133	1-216-089-91	s METAL 47K 5% 1/10W
R134	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R135	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R136	1-216-023-00	s METAL, CHIP 82 5% 1/10W
R137 - R146	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R147	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R148	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R149	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R150	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R151	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R152	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R153	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R154	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R155	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R156	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R157	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R158	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R159	1-216-037-00	s METAL, CHIP 330 5% 1/10W
R160	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R161	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R162	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R163	1-215-881-11	s METAL 15 5% 2W
R165	1-216-309-00	s METAL 5.6 5% 1/10W

(PRT-11 BOARD)

Ref. No.
or Q'ty Part No. SP Description

R166	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R167	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R170	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R171	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R172	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R173	1-216-033-00	s METAL, CHIP 220 5% 1/10W
R174	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R175	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R176	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R178	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R179	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R181	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R182	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R183	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W
R190	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R191	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R192	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W
R196	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R197	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R198	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R201 - R209	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R210 - R218	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R219	1-216-121-91	s METAL 1M 5% 1/10W
R220 - R227	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R228 - R240	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R213	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R241	1-216-295-11	s CHIP, CONDUCTOR 0
R243 - R269	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R270	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R271	1-216-097-91	s METAL 100K 5% 1/10W
R272	1-216-009-00	s METAL, CHIP 22 5% 1/10W
R273	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R274	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R275	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R276	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R277	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R278	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R279	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R280	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R281	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R291	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R292	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R1000	1-215-881-11	s METAL 15 5% 2W
S1	1-570-909-11	s SWITCH, PUSH
TH1	1-810-075-11	s THERMISTOR, NTC
X101	1-579-996-21	s VIBRATOR, CERAMIC 20.0MHz
X201	1-579-996-21	s VIBRATOR, CERAMIC 20.0MHz
X202	1-760-590-21	s OSCILLATOR, CRYSTAL 26.513MHz

SE-417 BOARD

Ref. No. or Q'ty	Part No.	SP Description
lpc	A-8315-872-A o	MOUNTED CIRCUIT BOARD, SE-417
C1	1-163-038-91	s CERAMIC 0.1uF 25V
C2	1-163-275-11	s CERAMIC 0.001uF 5% 50V
C3	1-163-275-11	s CERAMIC 0.001uF 5% 50V
C4	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C5	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C6	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C7	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C8	1-163-038-91	s CERAMIC 0.1uF 25V
C9	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C10	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C11	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C12	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C13	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C14	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C15	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C16	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C17	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C18	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C19	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C20	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C21	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C22	1-104-608-11	s ELECT 33uF 20% 6.3V
C23	1-163-038-91	s CERAMIC 0.1uF 25V
CN1	1-580-057-11	s PIN, CONNECTOR 4P
CN2	1-580-055-21	s PIN, CONNECTOR 2P
CN3	1-569-775-21	s PIN, CONNECTOR 5P
CN4	1-580-056-21 o	PIN, CONNECTOR 3P
CN5	1-580-056-21 o	PIN, CONNECTOR 3P
CN6	1-569-775-21	s PIN, CONNECTOR 5P
CN7	1-770-705-11	s CONNECTOR, FFC/FPC 22P
IC1	8-759-354-27	s IC ST24C01FM6TR
IC2	8-759-926-49	s IC SN74HC245ANS
IC5	8-759-100-95	s IC UPC324G2
IC6	8-759-100-95	s IC UPC324G2
IC7	8-759-381-55	s IC UPC339G2-E2
JR1 - JR58	1-216-295-11	s METAL, CHIP 0 5% 1/10W
PH1	8-749-923-97	s PHOTO INTERRUPTER GP2S40
Q1	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q2	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q3	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q4	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
R1	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R2	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R3	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R4	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R5	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R6	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R7	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R8	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R9	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R10	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R11	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R12	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R13	1-216-029-00	s METAL, CHIP 150 5% 1/10W

(SE-417 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R14	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R15	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R16	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R17	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R18	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R19	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R20	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R21	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R22	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R23	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R24	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R25	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R26	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R27	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R28	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R29	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R30	1-216-105-91	s METAL, CHIP 220K 5% 1/10W
R31	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R32	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R33	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R34	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R35	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R36	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R37	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R38	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R39	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R40	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R41	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R42	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R43	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R44	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R45	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R46	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R47	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R48	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R49	1-216-295-11	s METAL, CHIP 0 5% 1/10W

SE-418 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8315-874-A	o MOUNTED CIRCUIT BOARD, SE-418
C101 - C107	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C108	1-104-608-11	s ELECT 33uF 20% 6.3V
C109	1-163-038-91	s CERAMIC 0.1uF 25V
CN101	1-691-550-11	s CONNECTOR (1.5MM)(SMD) 3P MALE
CN102	1-691-550-11	s CONNECTOR (1.5MM)(SMD) 3P MALE
CN103	1-573-768-21	s CONNECTOR (1.5MM)(SMD) 5P MALE
CN104	1-573-768-21	s CONNECTOR (1.5MM)(SMD) 5P MALE
CN105	1-778-276-11	s CONNECTOR, FFC/FPC 12P
IC101	8-759-926-49	s IC SN74HC245ANS
JR101 - JR109	1-216-295-11	s METAL, CHIP 0 5% 1/10W
PH101	8-749-010-69	s PHOTO INTERRUPTER GP158V
Q101	8-729-101-07	s TRANSISTOR 2SB798
Q102	8-729-901-00	s TRANSISTOR DTC124EK
R101 - R107	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R108 - R114	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R115 - R122	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R123	1-216-049-00	s METAL, CHIP 1K 5% 1/10W

SE-419 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-667-005-11	o PRINTED CIRCUIT BOARD, SE-419
CN150	1-573-290-21	s PIN, CONNECTOR (1.5MM) (SMD)4P
PH150	8-719-052-69	s DIODE RPI-352
S150	1-571-958-11	s SWITCH, PUSH (1 KEY)

SE-420 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc	1-667-006-11 o PRINTED CIRCUIT BOARD, SE-420
CN201	1-573-768-21 s CONNECTOR (1.5MM)(SMD) 5P MALE
PH201	8-719-052-69 s DIODE RPI-352
PH202	8-719-052-69 s DIODE RPI-352

SE-425 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc	1-666-985-11 o PRINTED CIRCUIT BOARD, SE-425
CN401	1-580-056-21 o PIN, CONNECTOR 3P
CN402	1-569-775-21 s PIN, CONNECTOR 5P
PH401	8-749-923-97 s PHOTO INTERRUPTER GP2S40

SE-422 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc	1-667-007-11 o PRINTED CIRCUIT BOARD, SE-422
CN250	1-580-056-21 o PIN, CONNECTOR 3P
PH250	8-749-923-97 s PHOTO INTERRUPTER GP2S40

SE-426 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc	1-666-986-11 o PRINTED CIRCUIT BOARD, SE-426
CN450	1-564-707-11 o CONNECTOR, 5P, MALE
PH450	8-749-010-50 s PHOTO INTERRUPTER RPI-5100
PH451	8-719-052-69 s DIODE RPI-352

SE-423 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc	1-666-983-11 o PRINTED CIRCUIT BOARD, SE-423
CN301	1-580-056-21 o PIN, CONNECTOR 3P
D301	8-719-938-07 s DIODE GL480
D302	8-719-938-07 s DIODE GL480

SE-427 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc	1-666-987-11 o PRINTED CIRCUIT BOARD, SE-427
CN501	1-691-550-11 s CONNECTOR (1.5MM)(SMD) 3P MALE
PH501	8-749-010-50 s PHOTO INTERRUPTER RPI-5100

SE-424 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc	1-666-984-11 o PRINTED CIRCUIT BOARD, SE-424
CN350	1-580-056-21 o PIN, CONNECTOR 3P
Q350	8-729-930-95 s PHOTOTRANSISTOR PT480F
Q351	8-729-930-95 s PHOTOTRANSISTOR PT480F

SE-428 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc	1-666-988-11 o PRINTED CIRCUIT BOARD, SE-428
CN550	1-580-056-21 o PIN, CONNECTOR 3P
PH550	8-719-939-05 s PHOTOTRANSISTOR GP-1S54

SE-429 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc 1-666-997-11 o PRINTED CIRCUIT BOARD, SE-429
CN601 1-569-775-21 s PIN, CONNECTOR 5P
PH601 8-719-052-69 s DIODE RPI-352
PH602 8-719-052-69 s DIODE RPI-352

SU-39 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc 1-667-002-11 o PRINTED CIRCUIT BOARD, SU-39
CN901 1-564-718-11 s CONNECTOR, 2P, MALE
M901 1-698-323-11 s MOTOR, DC

SE-430 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc 1-666-998-11 o PRINTED CIRCUIT BOARD, SE-430
CN650 1-580-057-11 s PIN, CONNECTOR 4P
CN651 1-778-273-11 s CONNECTOR, 15P FEMALE

SU-36 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc 1-666-999-11 o PRINTED CIRCUIT BOARD, SU-36
CN750 1-770-160-21 s PIN, CONNECTOR 2P
M750 1-541-309-11 s MOTOR, L (RF-370C)

SU-37 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc 1-667-000-11 o PRINTED CIRCUIT BOARD, SU-37
CN801 1-770-160-21 s PIN, CONNECTOR 2P
M801 1-541-309-11 s MOTOR, L (RF-370C)

SU-38 BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc 1-667-001-11 o PRINTED CIRCUIT BOARD, SU-38
CN850 1-770-160-21 s PIN, CONNECTOR 2P
M850 1-541-309-11 s MOTOR, L (RF-370C)

SY-250 BOARD

Ref. No.
or Q'ty Part No. SP Description

NOTE: *1 For UP-2800(J) *7 For UP-2950(J)
 *2 For UP-2800(UC) *8 For UP-2950(UC)
 *3 For UP-2800P(CE) *9 For UP-2300(J)
 *4 For UP-2850(CE) *10 For UP-2300(UC)
 *5 For UP-2900(J) *11 For UP-2300P(CE)
 *6 For UP-2900(UC)

lpc A-8315-964-A o MOUNTED CIRCUIT BOARD,
 SY-250(TPCN)[for *5,*7]
 lpc A-8315-857-A o MOUNTED CIRCUIT BOARD, SY-250
 [for *1,*2,*3,*4,*6,*8]
 lpc A-8316-219-A o MOUNTED CIRCUIT BOARD, SY-250
 [for *9*10]
 lpc A-8316-235-A o MOUNTED CIRCUIT BOARD,
 SY-250(XDRV)[for *11]

C100 1-163-227-11 s CERAMIC, CHIP 10PF 5% 50V
 C101 1-163-227-11 s CERAMIC, CHIP 10PF 5% 50V
 C102 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
 C120 1-163-275-11 s CERAMIC 0.001uF 5% 50V
 C121 1-163-275-11 s CERAMIC 0.001uF 5% 50V
 C150 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
 C151 1-163-231-11 s CERAMIC 15PF 5% 50V
 C160 1-163-099-00 s CERAMIC, CHIP 18PF 5% 50V
 C190 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
 C191 1-126-396-11 s ELECT, CHIP 47uF 20% 16V

C280 - C287
 1-163-038-91 s CERAMIC 0.1uF 25V
 C500 1-163-038-91 s CERAMIC 0.1uF 25V [for *11]
 C600 - C608
 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
 C620 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
 C621 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
 C622 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
 C623 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
 C640 1-163-038-91 s CERAMIC 0.1uF 25V

C641 1-163-038-91 s CERAMIC 0.1uF 25V
 C642 1-163-038-91 s CERAMIC 0.1uF 25V
 C643 1-163-038-91 s CERAMIC 0.1uF 25V
 C644 1-163-038-91 s CERAMIC 0.1uF 25V
 C645 1-163-038-91 s CERAMIC 0.1uF 25V

C646 1-163-038-91 s CERAMIC 0.1uF 25V
 C660 1-126-393-11 s ELECT 33uF 20% 10V
 C661 1-126-393-11 s ELECT 33uF 20% 10V
 C662 1-126-393-11 s ELECT 33uF 20% 10V
 C663 1-126-393-11 s ELECT 33uF 20% 10V

C664 1-126-393-11 s ELECT 33uF 20% 10V
 C680 1-163-038-91 s CERAMIC 0.1uF 25V
 C681 1-163-038-91 s CERAMIC 0.1uF 25V
 C682 1-163-038-91 s CERAMIC 0.1uF 25V
 C683 1-163-038-91 s CERAMIC 0.1uF 25V

C684 1-163-038-91 s CERAMIC 0.1uF 25V
 C901 1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
 C953 1-163-038-91 s CERAMIC 0.1uF 25V
 C954 1-128-401-11 s ELECT 100uF 20% 25V

CN1 1-565-316-21 s SOCKET, CONNECTOR 25P
 CN1001 1-778-331-11 s CONNECTOR, FFC/FPC 16P
 [for *1,*2,*3,*4,*5,*6,*7,*8]
 CN1002 1-774-771-11 s CONNECTOR, FFC/FPC 14P
 CN1003 1-774-771-11 s CONNECTOR, FFC/FPC 14P
 CN1004 1-774-770-11 s CONNECTOR, FFC/FPC 30P

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Ref. No.
or Q'ty Part No. SP Description

CN1005 1-779-936-11 s CONNECTOR, FFC/FPC 18P
 CN1006 1-691-550-11 s CONNECTOR (1.5MM)(SMD) 3P MALE
 [for *11]

CNI200 1-526-660-21 o SOCKET, IC 32P

D110 8-719-801-78 s DIODE 1SS184

D111 8-719-801-78 s DIODE 1SS184

D112 8-719-801-78 s DIODE 1SS184

D113 8-719-801-78 s DIODE 1SS184

D190 8-719-801-78 s DIODE 1SS184

D600 8-719-800-76 s DIODE 1SS226

D601 8-719-800-76 s DIODE 1SS226

FL804 - L809 1-543-960-21 s BEAD, FERRITE (CHIP)

FL820 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]

FL821 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]

FL822 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]

FL823 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]

FL824 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]

FL825 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]

FL826 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]

FL827 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]

FL828 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]

FL829 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*5,*6,*7,*8]

FL830 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*6,*8,*5,*7]

FL831 1-543-960-21 s BEAD, FERRITE (CHIP)
 [for *1,*2,*3,*4,*6,*8,*5,*7]

FL840 - FL851 1-543-960-21 s BEAD, FERRITE (CHIP)

FL860 1-543-960-21 s BEAD, FERRITE (CHIP)

FL861 1-543-960-21 s BEAD, FERRITE (CHIP)

FL862 1-543-960-21 s BEAD, FERRITE (CHIP)

FL900 1-543-960-21 s BEAD, FERRITE (CHIP)

FL901 1-543-960-21 s BEAD, FERRITE (CHIP)

IC100 8-759-473-64 s IC HD6433040S-A00F

IC101 8-759-926-11 s IC SN74HC138ANS

IC110 8-759-926-11 s IC SN74HC138ANS

IC150 8-759-473-63 s IC UPD6466GS-502-E2

IC190 8-759-518-38 s IC PST572CMT

IC200 8-759-479-42 o IC MX27C2000DC-12-SY250-V1.00
 [for *1,*2,*3,*4,*5,*6,*7,*8]

IC200 8-759-482-55 o IC MX27C2000DC-12-SY250-V1.00
 [for *9,*10,*11]

IC220 8-759-055-21 s IC HN58C66SFP25TZ

IC230 8-759-926-49 s IC SN74HC245ANS

[for *1,*2,*3,*4,*5,*6,*7,*8]

IC250 8-759-346-05 s IC UPD71051GU-10-E2

IC270 8-759-926-49 s IC SN74HC245ANS

IC280 8-759-252-59 s IC MAX202CSE-TE2

(SY-250 BOARD)

(SY-250 BOARD)

Ref. No. or Q'ty	Part No.	SP Description	Ref. No. or Q'ty	Part No.	SP Description
IC281	8-759-252-59	s IC MAX202CSE-TE2	R141	1-216-033-00	s METAL, CHIP 220 5% 1/10W [for *5,*7]
IC300	8-759-983-69	s IC LM358PS	R142	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W [for *5,*7]
IC301	8-759-988-13	s IC LM393PS	R160	1-216-025-00	s METAL, CHIP 100 5% 1/10W
IC302	8-759-988-13	s IC LM393PS	R161	1-216-025-00	s METAL, CHIP 100 5% 1/10W
IC400	8-759-925-72	s IC SN74HC02ANS	R162	1-216-031-00	s METAL, CHIP 180 5% 1/10W
IC401	8-759-925-80	s IC SN74HC14ANS	R163	1-216-025-00	s METAL, CHIP 100 5% 1/10W
IC402	8-759-925-82	s IC SN74HC21NS	R170	1-216-029-00	s METAL, CHIP 150 5% 1/10W
IC403	8-759-926-49	s IC SN74HC245ANS	R171	1-216-033-00	s METAL, CHIP 220 5% 1/10W
IC404	8-759-926-49	s IC SN74HC245ANS	R180	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
IC500	8-759-518-85	s IC S16MD01 [for *11]	R181	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
J1	1-770-206-11	o JACK, MICRO	R190	1-216-041-00	s METAL, CHIP 470 5% 1/10W
J2	1-507-967-11	s JACK	R191	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
L1	1-408-397-00	s INDUCTOR 1uH	R192	1-216-073-00	s METAL, CHIP 10K 5% 1/10W [for *1,*2,*3,*4,*5,*6,*7,*8,*9,*10]
L150	1-410-388-31	s INDUCTOR, CHIP 39uH	R192	1-216-049-00	s METAL, CHIP 1K 5% 1/10W [for *11]
L800	1-408-397-00	s INDUCTOR 1uH	R200	1-216-295-00	s METAL, CHIP 0 5% 1/10W
L801	1-408-397-00	s INDUCTOR 1uH	R220	1-216-295-00	s METAL, CHIP 0 5% 1/10W
L802	1-408-397-00	s INDUCTOR 1uH	R270	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
L803	1-408-397-00	s INDUCTOR 1uH	R271	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
L900	1-408-397-00	s INDUCTOR 1uH	R272	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
L901	1-408-397-00	s INDUCTOR 1uH	R273	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
L902	1-408-397-00	s INDUCTOR 1uH	R274	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
L903	1-408-397-00	s INDUCTOR 1uH	R275	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
L951	1-424-675-11	s COIL, CHOKE 33uH	R276	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
L952	1-424-675-11	s COIL, CHOKE 33uH	R277	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
Q140	8-729-027-38	s TRANSISTOR DTA144EKA-T146	R500	1-216-033-00	s METAL, CHIP 220 5% 1/10W [for *11]
Q141	8-729-900-53	s TRANSISTOR DTC114EK [for *5,*7]	R600 - R608	1-216-013-00	s METAL, CHIP 33 5% 1/10W
Q160	8-729-120-28	s TRANSISTOR 2SC1623-L5L6	R620 - R627	1-216-013-00	s METAL, CHIP 33 5% 1/10W
Q170	8-729-027-56	s TRANSISTOR DTC143TKA	R684	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
Q171	8-729-027-56	s TRANSISTOR DTC143TKA	R700 - R707	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
Q180	8-729-027-56	s TRANSISTOR DTC143TKA	R720	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R101	1-216-025-00	s METAL, CHIP 100 5% 1/10W	R721	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R103	1-216-295-00	s METAL, CHIP 0 5% 1/10W	R722	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R110	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R723	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R111	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R724	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R112	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R740	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R113	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	R741	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R120	1-216-085-00	s METAL, CHIP 33K 5% 1/10W	R742	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R121	1-216-077-00	s METAL, CHIP 15K 5% 1/10W	R743	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R122	1-216-109-00	s METAL, CHIP 330K 5% 1/10W	R744	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R123	1-216-089-91	s METAL 47K 5% 1/10W	R760	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R124	1-216-049-00	s METAL, CHIP 1K 5% 1/10W	R780	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R125	1-216-049-00	s METAL, CHIP 1K 5% 1/10W	R820 - R827	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R126	1-216-101-00	s METAL, CHIP 150K 5% 1/10W	S140	1-571-275-31	s SWITCH, SLIDE [for *5,*7]
R127	1-216-073-00	s METAL, CHIP 10K 5% 1/10W	SP180	1-529-080-11	s BUZZER, PIEZOELECTRIC
R128	1-216-017-91	s METAL 47 5% 1/10W	X100	1-760-592-21	s VIBRATOR, CRYSTAL (SMD) 9.8304MHz
R130	1-216-073-00	s METAL, CHIP 10K 5% 1/10W			
R131	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W			
R132	1-216-049-00	s METAL, CHIP 1K 5% 1/10W			
R133	1-216-105-91	s METAL, CHIP 220K 5% 1/10W			
R134	1-216-073-00	s METAL, CHIP 10K 5% 1/10W			
R135	1-216-013-00	s METAL, CHIP 33 5% 1/10W			
R136	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W			
R140	11-216-295-11	s METAL, CHIP 0 5% 1/10W			

VA-181 BOARD

Ref. No.
or Q'ty Part No. SP Description

NOTE: *1 For UP-2800(J) *7 For UP-2950(J)
*2 For UP-2800(UC) *8 For UP-2950(UC)
*3 For UP-2800P(CE)
*4 For UP-2850(CE)
*5 For UP-2900(J)
*6 For UP-2900(UC)

lpc A-8315-865-A o MOUNTED CIRCUIT BOARD, VA-181(N)
[for *1,*2,*5,*7]
lpc A-8315-956-A o MOUNTED CIRCUIT BOARD, VA-181(NP)
[for *6,*8]
lpc A-8315-939-A o MOUNTED CIRCUIT BOARD, VA-181(P)
[for *3,*4]

C101 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
C102 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
C103 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
C104 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V

C108 1-163-038-91 s CERAMIC 0.1uF 25V

C109 1-163-038-91 s CERAMIC 0.1uF 25V

C110 1-163-038-91 s CERAMIC 0.1uF 25V

C111 1-163-038-91 s CERAMIC 0.1uF 25V

C112 1-163-038-91 s CERAMIC 0.1uF 25V

C113 1-163-038-91 s CERAMIC 0.1uF 25V

C114 1-163-038-91 s CERAMIC 0.1uF 25V

C115 1-163-038-91 s CERAMIC 0.1uF 25V

C116 1-163-038-91 s CERAMIC 0.1uF 25V

C117 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V

C118 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V

C119 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V

C120 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V

C121 1-163-038-91 s CERAMIC 0.1uF 25V

C122 1-163-038-91 s CERAMIC 0.1uF 25V

C123 1-163-275-11 s CERAMIC 0.001uF 5% 50V

C124 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V

C125 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V

C126 1-163-038-91 s CERAMIC 0.1uF 25V

C127 1-163-038-91 s CERAMIC 0.1uF 25V

C128 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V

C129 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V

C130 1-163-038-91 s CERAMIC 0.1uF 25V

C131 1-163-038-91 s CERAMIC 0.1uF 25V

C132 1-163-038-91 s CERAMIC 0.1uF 25V

C133 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V

C134 1-163-231-11 s CERAMIC 15PF 5% 50V

C135 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V

C136 1-163-038-91 s CERAMIC 0.1uF 25V

C137 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V

C138 1-163-038-91 s CERAMIC 0.1uF 25V

C139 1-163-038-91 s CERAMIC 0.1uF 25V

C140 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V

C141 1-163-038-91 s CERAMIC 0.1uF 25V

C142 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V

C143 1-126-396-11 s ELECT, CHIP 47uF 20% 16V

C144 1-163-038-91 s CERAMIC 0.1uF 25V

C145 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V

C146 1-163-038-91 s CERAMIC 0.1uF 25V

C147 1-126-396-11 s ELECT, CHIP 47uF 20% 16V

C148 1-163-038-91 s CERAMIC 0.1uF 25V

C149 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V

C150 1-163-038-91 s CERAMIC 0.1uF 25V

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Ref. No.
or Q'ty Part No. SP Description

C151 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
C152 1-163-038-91 s CERAMIC 0.1uF 25V
C153 1-126-395-11 s ELECT, CHIP 22uF 20% 16V
C154 1-163-038-91 s CERAMIC 0.1uF 25V
C155 1-126-395-11 s ELECT, CHIP 22uF 20% 16V

C156 1-163-038-91 s CERAMIC 0.1uF 25V
C157 1-163-263-11 s CERAMIC, CHIP 330PF 5% 50V
C158 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
C159 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
C201 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V

C202 1-163-038-91 s CERAMIC 0.1uF 25V
C203 1-163-087-00 s CERAMIC, CHIP 4PF 50V
C204 1-126-401-11 s ELECT, CHIP 1uF 20% 50V
C205 1-163-038-91 s CERAMIC 0.1uF 25V
C206 1-163-038-91 s CERAMIC 0.1uF 25V

C207 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
C208 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V

C212 1-163-038-91 s CERAMIC 0.1uF 25V
C213 1-163-038-91 s CERAMIC 0.1uF 25V
C214 1-163-038-91 s CERAMIC 0.1uF 25V

C215 1-163-038-91 s CERAMIC 0.1uF 25V
C216 1-163-038-91 s CERAMIC 0.1uF 25V

C217 1-163-038-91 s CERAMIC 0.1uF 25V
C218 1-163-038-91 s CERAMIC 0.1uF 25V
C219 1-163-038-91 s CERAMIC 0.1uF 25V

C220 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
C221 1-163-038-91 s CERAMIC 0.1uF 25V

C222 1-163-038-91 s CERAMIC 0.1uF 25V
C223 1-163-038-91 s CERAMIC 0.1uF 25V
C224 1-163-038-91 s CERAMIC 0.1uF 25V

C225 1-163-038-91 s CERAMIC 0.1uF 25V
C226 1-163-038-91 s CERAMIC 0.1uF 25V

C227 1-163-038-91 s CERAMIC 0.1uF 25V
C228 1-163-038-91 s CERAMIC 0.1uF 25V
C229 1-163-038-91 s CERAMIC 0.1uF 25V

C230 1-163-227-11 s CERAMIC, CHIP 10PF 5% 50V
C301 1-126-396-11 s ELECT, CHIP 47uF 20% 16V

C302 1-163-038-91 s CERAMIC 0.1uF 25V
C303 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V

C304 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V

C305 1-163-038-91 s CERAMIC 0.1uF 25V
C306 1-163-038-91 s CERAMIC 0.1uF 25V

C307 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
C308 1-163-275-11 s CERAMIC 0.001uF 5% 50V

C309 1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V

C310 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
C311 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V

C312 1-126-395-11 s ELECT, CHIP 22uF 20% 16V
C313 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V

C314 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
[for *3,*4,*6,*8]

C315 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
[for *1,*2,*5,*7]

C316 1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
C317 1-164-695-11 s CERAMIC 0.0022uF 5% 50V

C318 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
[for *1,*2,*5,*7]

C319 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
[for *3,*4]

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Ref. No. or Q'ty	Part No.	SP Description
C320	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C321	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C322	1-163-038-91	s CERAMIC 0.1uF 25V
C323	1-164-346-11	s CERAMIC 1uF 16V
C324	1-163-038-91	s CERAMIC 0.1uF 25V
C325	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C326	1-164-161-11	s CERAMIC, CHIP 0.0022uF 10% 100V
C327	1-163-038-91	s CERAMIC 0.1uF 25V
C328	1-126-395-11	s ELECT, CHIP 22uF 20% 16V
C329	1-163-038-91	s CERAMIC 0.1uF 25V
C330	1-163-038-91	s CERAMIC 0.1uF 25V
C331	1-163-038-91	s CERAMIC 0.1uF 25V
C332	1-164-161-11	s CERAMIC, CHIP 0.0022uF 10% 100V
C333	1-164-161-11	s CERAMIC, CHIP 0.0022uF 10% 100V
C334	1-164-161-11	s CERAMIC, CHIP 0.0022uF 10% 100V
C335	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 50V
C336	1-126-402-11	s ELECT, CHIP 2.2uF 20% 50V
C337	1-163-038-91	s CERAMIC 0.1uF 25V
C338	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C339	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C340	1-163-038-91	s CERAMIC 0.1uF 25V
C341	1-163-038-91	s CERAMIC 0.1uF 25V
C342	1-163-038-91	s CERAMIC 0.1uF 25V
C343	1-163-038-91	s CERAMIC 0.1uF 25V
C344	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 50V
C345	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 50V
C346	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 50V
C347	1-164-232-11	s CERAMIC, CHIP 0.01uF 10% 50V
C348	1-163-038-91	s CERAMIC 0.1uF 25V
C349	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C350	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C351	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C352	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C353	1-163-038-91	s CERAMIC 0.1uF 25V
C354	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C355	1-163-038-91	s CERAMIC 0.1uF 25V
C356	1-163-038-91	s CERAMIC 0.1uF 25V
C357	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C358	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C359	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C360	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C401	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C402	1-163-038-91	s CERAMIC 0.1uF 25V
C403	1-163-038-91	s CERAMIC 0.1uF 25V
C404	1-163-038-91	s CERAMIC 0.1uF 25V
C405	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C406	1-163-038-91	s CERAMIC 0.1uF 25V
C407	1-163-038-91	s CERAMIC 0.1uF 25V
C408	1-163-038-91	s CERAMIC 0.1uF 25V
C409	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C410	1-163-038-91	s CERAMIC 0.1uF 25V
C411	1-163-038-91	s CERAMIC 0.1uF 25V
C412	1-163-038-91	s CERAMIC 0.1uF 25V
C413	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C414	1-163-038-91	s CERAMIC 0.1uF 25V
C415	1-163-038-91	s CERAMIC 0.1uF 25V
C416	1-163-038-91	s CERAMIC 0.1uF 25V
C417	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C418	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V

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C419	1-163-038-91	s CERAMIC 0.1uF 25V
C420	1-163-038-91	s CERAMIC 0.1uF 25V
C421	1-163-038-91	s CERAMIC 0.1uF 25V
C422	1-163-038-91	s CERAMIC 0.1uF 25V
C423	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C425	1-163-038-91	s CERAMIC 0.1uF 25V
C426	1-163-038-91	s CERAMIC 0.1uF 25V
C427	1-163-089-00	s CERAMIC, CHIP 6PF 50V
C428	1-163-089-00	s CERAMIC, CHIP 6PF 50V
C429	1-163-038-91	s CERAMIC 0.1uF 25V
C430	1-163-038-91	s CERAMIC 0.1uF 25V
C431	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C432	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C434	1-163-038-91	s CERAMIC 0.1uF 25V
C435	1-163-038-91	s CERAMIC 0.1uF 25V
C436	1-163-089-00	s CERAMIC, CHIP 6PF 50V
C437	1-163-089-00	s CERAMIC, CHIP 6PF 50V
C438	1-163-038-91	s CERAMIC 0.1uF 25V
C439	1-163-038-91	s CERAMIC 0.1uF 25V
C440	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C441	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C443	1-163-038-91	s CERAMIC 0.1uF 25V
C444	1-163-038-91	s CERAMIC 0.1uF 25V
C445	1-163-089-00	s CERAMIC, CHIP 6PF 50V
C446	1-163-089-00	s CERAMIC, CHIP 6PF 50V
C447	1-163-038-91	s CERAMIC 0.1uF 25V
C448	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C449	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C450	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C451	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C452	1-163-038-91	s CERAMIC 0.1uF 25V
C453	1-163-038-91	s CERAMIC 0.1uF 25V
C454	1-163-038-91	s CERAMIC 0.1uF 25V
C456	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C457	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C458	1-163-038-91	s CERAMIC 0.1uF 25V
C459	1-163-038-91	s CERAMIC 0.1uF 25V
C460	1-163-038-91	s CERAMIC 0.1uF 25V
C601	1-163-275-11	s CERAMIC 0.001uF 5% 50V
C602	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C603	1-163-038-91	s CERAMIC 0.1uF 25V
C604	1-163-275-11	s CERAMIC 0.001uF 5% 50V
C605	1-163-275-11	s CERAMIC 0.001uF 5% 50V
C606	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C607	1-163-038-91	s CERAMIC 0.1uF 25V
C608	1-163-038-91	s CERAMIC 0.1uF 25V
C609	1-163-038-91	s CERAMIC 0.1uF 25V
C610	1-163-038-91	s CERAMIC 0.1uF 25V
C611	1-163-038-91	s CERAMIC 0.1uF 25V
C612	1-163-038-91	s CERAMIC 0.1uF 25V
C613	1-163-038-91	s CERAMIC 0.1uF 25V
C614	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C615	1-163-251-11	s CERAMIC, CHIP 100PF 5% 50V
C616	1-163-263-11	s CERAMIC, CHIP 330PF 5% 50V
C617	1-126-402-11	s ELECT, CHIP 2.2uF 20% 50V
C618	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C619	1-163-038-91	s CERAMIC 0.1uF 25V
C620	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C621	1-163-038-91	s CERAMIC 0.1uF 25V

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C622 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V
 C623 1-104-760-11 s CERAMIC, CHIP 0.047uF 10% 50V
 C624 1-163-038-91 s CERAMIC 0.1uF 25V
 C625 1-163-275-11 s CERAMIC 0.001uF 5% 50V
 C626 1-163-038-91 s CERAMIC 0.1uF 25V

C627 1-163-275-11 s CERAMIC 0.001uF 5% 50V
 C628 1-163-038-91 s CERAMIC 0.1uF 25V
 C629 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C630 1-126-402-11 s ELECT, CHIP 2.2uF 20% 50V
 C631 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V

C632 1-163-038-91 s CERAMIC 0.1uF 25V
 C633 1-163-275-11 s CERAMIC 0.001uF 5% 50V
 C634 1-163-038-91 s CERAMIC 0.1uF 25V
 C635 1-163-038-91 s CERAMIC 0.1uF 25V
 C636 1-163-017-00 s CERAMIC, CHIP 0.0047uF 5% 50V

C637 1-163-038-91 s CERAMIC 0.1uF 25V
 C638 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C639 1-126-401-11 s ELECT, CHIP 1uF 20% 50V
 C640 1-104-760-11 s CERAMIC, CHIP 0.047uF 10% 50V
 C641 1-163-227-11 s CERAMIC, CHIP 10PF 5% 50V

C642 1-163-038-91 s CERAMIC 0.1uF 25V
 C643 1-163-275-11 s CERAMIC 0.001uF 5% 50V
 C644 1-163-091-00 s CERAMIC, CHIP 8PF 50V
 [for *1,*2,*5,*6,*7,*8]
 C645 1-163-091-00 s CERAMIC, CHIP 8PF 50V
 [for *3,*4,*6,*8]
 C646 1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V

C647 1-104-760-11 s CERAMIC, CHIP 0.047uF 10% 50V
 C648 1-163-038-91 s CERAMIC 0.1uF 25V
 C649 1-163-038-91 s CERAMIC 0.1uF 25V
 C650 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
 C651 1-163-038-91 s CERAMIC 0.1uF 25V

C652 1-163-038-91 s CERAMIC 0.1uF 25V
 C653 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
 [for *3,*4]
 C654 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
 [for *1,*2,*5,*7]
 C655 1-163-038-91 s CERAMIC 0.1uF 25V
 C656 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V

C657 1-163-038-91 s CERAMIC 0.1uF 25V
 C658 1-163-038-91 s CERAMIC 0.1uF 25V
 C659 1-163-038-91 s CERAMIC 0.1uF 25V
 C660 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C661 1-163-038-91 s CERAMIC 0.1uF 25V

C662 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
 C663 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
 C664 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
 C665 1-163-038-91 s CERAMIC 0.1uF 25V
 C666 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V

C667 1-163-038-91 s CERAMIC 0.1uF 25V
 C668 1-163-038-91 s CERAMIC 0.1uF 25V
 C669 1-163-038-91 s CERAMIC 0.1uF 25V
 C670 1-163-038-91 s CERAMIC 0.1uF 25V
 C671 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V

C672 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
 C673 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
 C674 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
 C675 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C676 1-163-038-91 s CERAMIC 0.1uF 25V

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C677 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C678 1-163-038-91 s CERAMIC 0.1uF 25V
 C679 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
 C680 1-163-038-91 s CERAMIC 0.1uF 25V
 C698 1-126-412-11 s ELECT 220uF 20% 4V

C699 1-163-038-91 s CERAMIC 0.1uF 25V
 C701 1-163-038-91 s CERAMIC 0.1uF 25V
 [for *3,*4,*6,*8]
 C702 1-163-227-11 s CERAMIC, CHIP 10PF 5% 50V
 [for *3,*4,*6,*8]
 C703 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
 [for *3,*4,*6,*8]
 C704 1-163-009-11 s CERAMIC, CHIP 0.001uF 10% 50V
 [for *3,*4,*6,*8]
 C705 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
 [for *3,*4,*6,*8]
 C706 1-163-038-91 s CERAMIC 0.1uF 25V
 C707 1-163-038-91 s CERAMIC 0.1uF 25V
 [for *1,*2,*5,*6,*7,*8]
 C708 1-163-227-11 s CERAMIC, CHIP 10PF 5% 50V
 [for *1,*2,*5,*6,*7,*8]
 C709 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
 [for *1,*2,*5,*6,*7,*8]
 C710 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
 [for *1,*2,*5,*6,*7,*8]
 C711 1-163-009-11 s CERAMIC, CHIP 0.001uF 10% 50V
 C712 1-163-038-91 s CERAMIC 0.1uF 25V
 C713 1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V
 [for *3,*4,*6,*8]
 C714 1-163-009-11 s CERAMIC, CHIP 0.001uF 10% 50V
 C715 1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V
 [for *3,*4,*6,*8]
 C717 1-163-038-91 s CERAMIC 0.1uF 25V
 [for *3,*4,*6,*8]
 C718 1-163-009-11 s CERAMIC, CHIP 0.001uF 10% 50V
 [for *3,*4,*6,*8]
 C719 1-126-402-11 s ELECT, CHIP 2.2uF 20% 50V
 [for *3,*4,*6,*8]
 C720 1-163-038-91 s CERAMIC 0.1uF 25V
 [for *3,*4,*6,*8]

C721 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C801 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C802 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C803 1-163-038-91 s CERAMIC 0.1uF 25V
 C804 1-163-038-91 s CERAMIC 0.1uF 25V

C805 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C806 1-163-038-91 s CERAMIC 0.1uF 25V
 C807 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C808 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C809 1-163-038-91 s CERAMIC 0.1uF 25V

C810 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
 C811 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C812 1-163-038-91 s CERAMIC 0.1uF 25V
 C813 1-126-401-11 s ELECT, CHIP 1uF 20% 50V
 C814 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V

C815 1-163-038-91 s CERAMIC 0.1uF 25V
 C816 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C817 1-163-038-91 s CERAMIC 0.1uF 25V
 C818 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C819 1-163-038-91 s CERAMIC 0.1uF 25V

C820 1-163-038-91 s CERAMIC 0.1uF 25V

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C821 1-163-038-91 s CERAMIC 0.1uF 25V
 C822 1-163-038-91 s CERAMIC 0.1uF 25V
 C823 1-126-401-11 s ELECT, CHIP 1uF 20% 50V
 C824 1-126-401-11 s ELECT, CHIP 1uF 20% 50V
 C825 1-126-401-11 s ELECT, CHIP 1uF 20% 50V
 C826 1-126-401-11 s ELECT, CHIP 1uF 20% 50V
 C827 1-126-401-11 s ELECT, CHIP 1uF 20% 50V
 C828 1-163-038-91 s CERAMIC 0.1uF 25V
 C829 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C830 1-163-038-91 s CERAMIC 0.1uF 25V
 C831 1-163-038-91 s CERAMIC 0.1uF 25V
 C832 1-163-038-91 s CERAMIC 0.1uF 25V
 C833 1-163-038-91 s CERAMIC 0.1uF 25V
 C834 1-163-038-91 s CERAMIC 0.1uF 25V
 C835 1-163-038-91 s CERAMIC 0.1uF 25V
 C836 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
 C837 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
 C838 1-163-038-91 s CERAMIC 0.1uF 25V
 C839 1-163-038-91 s CERAMIC 0.1uF 25V
 C901 1-163-038-91 s CERAMIC 0.1uF 25V
 C902 1-163-038-91 s CERAMIC 0.1uF 25V
 C903 1-163-038-91 s CERAMIC 0.1uF 25V
 C904 1-163-038-91 s CERAMIC 0.1uF 25V
 C905 1-163-038-91 s CERAMIC 0.1uF 25V
 C906 1-163-089-00 s CERAMIC, CHIP 6PF 50V
 C907 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C908 1-163-038-91 s CERAMIC 0.1uF 25V
 C909 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C910 1-163-038-91 s CERAMIC 0.1uF 25V
 C911 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C912 1-163-038-91 s CERAMIC 0.1uF 25V
 C913 1-126-412-11 s ELECT 220uF 20% 4V
 C914 1-126-412-11 s ELECT 220uF 20% 4V
 C915 1-163-038-91 s CERAMIC 0.1uF 25V
 C916 1-126-412-11 s ELECT 220uF 20% 4V
 C917 1-126-412-11 s ELECT 220uF 20% 4V
 C937 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C938 1-163-038-91 s CERAMIC 0.1uF 25V
 C939 1-163-038-91 s CERAMIC 0.1uF 25V
 C940 1-163-231-11 s CERAMIC 15PF 5% 50V
 C941 1-163-089-00 s CERAMIC, CHIP 6PF 50V
 C942 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C943 1-163-038-91 s CERAMIC 0.1uF 25V
 C944 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C945 1-163-038-91 s CERAMIC 0.1uF 25V
 C946 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C947 1-163-038-91 s CERAMIC 0.1uF 25V
 C948 1-163-038-91 s CERAMIC 0.1uF 25V
 C949 1-163-231-11 s CERAMIC 15PF 5% 50V
 C950 1-163-089-00 s CERAMIC, CHIP 6PF 50V
 C951 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C952 1-163-038-91 s CERAMIC 0.1uF 25V
 C953 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C954 1-163-038-91 s CERAMIC 0.1uF 25V
 C955 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C956 1-163-038-91 s CERAMIC 0.1uF 25V
 C957 1-163-038-91 s CERAMIC 0.1uF 25V
 C958 1-163-231-11 s CERAMIC 15PF 5% 50V
 C959 1-163-089-00 s CERAMIC, CHIP 6PF 50V

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C960 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C961 1-163-038-91 s CERAMIC 0.1uF 25V
 C962 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C963 1-163-038-91 s CERAMIC 0.1uF 25V
 C964 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C965 1-163-038-91 s CERAMIC 0.1uF 25V
 C966 1-163-038-91 s CERAMIC 0.1uF 25V
 C967 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C968 1-163-038-91 s CERAMIC 0.1uF 25V
 C969 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C970 1-163-038-91 s CERAMIC 0.1uF 25V
 C971 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C972 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C973 1-163-038-91 s CERAMIC 0.1uF 25V
 C974 1-163-038-91 s CERAMIC 0.1uF 25V
 CN101 1-774-287-11 s CONNECTOR, FFC/FPC 22P
 CN102 1-779-992-11 s PIN, CONNECTOR 8P
 CN103 1-778-331-11 s CONNECTOR, FFC/FPC 16P
 CN104 1-774-770-11 s CONNECTOR, FFC/FPC 30P
 CN105 1-774-287-11 s CONNECTOR, FFC/FPC 22P
 CN106 1-774-767-11 s CONNECTOR, FFC/FPC 15P
 CV301 1-141-368-11 s CAP, CHIP TRIMMER [for *3,*4,*6,*8]
 CV302 1-141-368-11 s CAP, CHIP TRIMMER [for *1,*2,*5,*6,*7,*8]
 CV601 1-141-311-11 s VAR, TRIMMER 20PF [for *1,*2,*5,*6,*7,*8]
 CV602 1-141-311-11 s VAR, TRIMMER 20PF [for *3,*4,*6,*8]
 CV701 1-141-311-11 s VAR, TRIMMER 20PF [for *3,*4,*6,*8]
 CV702 1-141-311-11 s VAR, TRIMMER 20PF [for *3,*4,*6,*8]
 CV703 1-141-311-11 s VAR, TRIMMER 20PF [for *1,*2,*5,*6,*7,*8]
 D101 8-719-800-76 s DIODE 1SS226
 D201 8-719-800-76 s DIODE 1SS226
 D202 8-719-800-76 s DIODE 1SS226
 D401 8-719-976-96 s DIODE DTZ4.7C
 D701 8-713-102-23 s DIODE 1T362A-M20E-T8A [for *3,*4,*6,*8]
 DL101 1-415-761-21 s DELAY LINE, LC
 DL102 1-415-760-21 s DELAY LINE, LC
 DL301 1-415-313-00 s DELAY LINE (1H) [for *3,*4,*6,*8]
 FL201 1-239-563-11 s FILTER, LOW PASS
 FL202 1-239-563-11 s FILTER, LOW PASS
 FL203 1-239-563-11 s FILTER, LOW PASS
 FL301 1-239-564-11 s FILTER, LOW-PASS
 FL302 1-239-564-11 s FILTER, LOW-PASS
 FL303 1-239-564-11 s FILTER, LOW-PASS
 IC101 8-759-038-15 s IC MC74HC4538AF
 IC102 8-759-710-86 s IC NJM2233BM
 IC103 8-759-710-86 s IC NJM2233BM
 IC104 8-759-157-17 s IC PQ05SZ1U
 IC105 8-759-157-17 s IC PQ05SZ1U
 IC106 8-759-168-19 s IC TA78L09F-TE12L
 IC201 8-752-352-20 s IC CXD2023Q [for *1,*2,*5,*7]
 IC201 8-752-372-78 s IC CXD2024AQ [for *3,*4,*6,*8]

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IC301 8-752-058-64 s IC CXA1213BS
 IC302 8-759-062-66 s IC TCT7S66F
 IC303 8-759-062-66 s IC TCT7S66F
 IC304 8-759-983-69 s IC LM358PS
 IC305 8-759-710-86 s IC NJM2233BM

IC306 8-759-710-86 s IC NJM2233BM
 IC307 8-759-710-86 s IC NJM2233BM
 IC308 8-759-262-00 s IC MCL4576CF
 IC401 8-759-062-66 s IC TCT7S66F
 IC402 8-759-062-66 s IC TCT7S66F

IC403 8-759-062-66 s IC TCT7S66F
 IC404 8-752-053-21 s IC CXA1211M
 IC405 8-752-053-21 s IC CXA1211M
 IC406 8-752-053-21 s IC CXA1211M
 IC407 8-759-983-69 s IC LM358PS

IC408 8-759-242-64 s IC TC4W53F
 IC409 8-759-983-69 s IC LM358PS
 IC601 8-759-038-15 s IC MC74HC4538AF
 IC602 8-759-710-12 s IC NJM2230M
 IC603 8-759-242-64 s IC TC4W53F

IC604 8-759-038-15 s IC MC74HC4538AF
 IC605 8-759-242-64 s IC TC4W53F
 IC606 8-752-039-91 s IC CXA1437Q
 IC607 8-759-101-12 s IC UPC311G2
 IC608 8-752-062-80 s IC CXA1686M

IC609 8-759-929-26 s IC TL431CPS
 IC610 8-759-100-95 s IC UPC324G2
 IC611 8-759-635-27 s IC M62352GP
 IC613 8-759-926-52 s IC SN74HC257ANS
 IC614 8-759-242-76 s IC TCT7W08F

IC615 8-759-242-64 s IC TC4W53F
 IC616 8-759-387-75 s IC TCT7W00F(TE12R)
 IC701 8-752-341-58 s IC CXD1217Q
 IC702 8-759-242-64 s IC TC4W53F
 IC801 8-752-053-21 s IC CXA1211M

IC802 8-752-053-21 s IC CXA1211M
 IC803 8-759-242-76 s IC TCT7W08F
 IC804 8-759-278-95 s IC BA7606F
 IC901 8-752-068-43 s IC CXA1645M

L101 1-410-369-11 s INDUCTOR CHIP 1uH
 L102 1-410-369-11 s INDUCTOR CHIP 1uH
 L103 1-410-369-11 s INDUCTOR CHIP 1uH
 L104 1-410-369-11 s INDUCTOR CHIP 1uH
 L105 1-424-653-11 s COIL, CHOKE 10uH

L106 1-424-653-11 s COIL, CHOKE 10uH
 L201 1-410-369-11 s INDUCTOR CHIP 1uH
 L301 1-410-369-11 s INDUCTOR CHIP 1uH
 L302 1-410-380-31 s INDUCTOR CHIP 8.2uH
 [for *3,*4,*6,*8]

L303 1-410-369-11 s INDUCTOR CHIP 1uH
 L304 1-410-369-11 s INDUCTOR CHIP 1uH
 L305 1-410-369-11 s INDUCTOR CHIP 1uH
 L601 1-410-369-11 s INDUCTOR CHIP 1uH
 L602 1-410-656-11 s INDUCTOR CHIP 150uH
 L603 1-410-369-11 s INDUCTOR CHIP 1uH

L604 1-410-387-11 s INDUCTOR CHIP 33uH
 L701 1-410-369-11 s INDUCTOR CHIP 1uH
 L702 1-410-377-31 s INDUCTOR CHIP 4.7uH
 [for *3,*4,*6,*8]

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Ref. No.
or Q'ty Part No. SP Description

L703 1-410-377-31 s INDUCTOR CHIP 4.7uH
 [for *3,*4,*6,*8]
 L801 1-410-369-11 s INDUCTOR CHIP 1uH
 L901 1-410-369-11 s INDUCTOR CHIP 1uH
 L902 1-410-369-11 s INDUCTOR CHIP 1uH

LV301 1-411-191-21 s COIL, VARIABLE (D.A.T.)
 [for *3,*4,*6,*8]

Q101 8-729-402-81 s TRANSISTOR XN4501
 Q102 8-729-402-81 s TRANSISTOR XN4501
 Q103 8-729-402-81 s TRANSISTOR XN4501

Q104 8-729-420-36 s TRANSISTOR XN2501
 Q105 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q106 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
 Q107 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
 Q108 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q109 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
 Q110 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q111 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
 Q112 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
 Q113 8-729-216-22 s TRANSISTOR 2SA1162

Q201 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
 Q202 8-729-402-13 s TRANSISTOR XN1501

Q203 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
 Q204 8-729-402-84 s TRANSISTOR XN4601
 Q205 8-729-402-84 s TRANSISTOR XN4601

Q206 8-729-901-00 s TRANSISTOR DTC124EK
 Q207 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q209 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
 Q210 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q211 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
 Q212 8-729-901-00 s TRANSISTOR DTC124EK
 Q301 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

[for *3,*4,*6,*8]

Q302 8-729-901-00 s TRANSISTOR DTC124EK
 Q303 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q304 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
 Q305 8-729-402-13 s TRANSISTOR XN1501

Q306 8-729-117-84 s TRANSISTOR 2SK160A-K26
 [for *3,*4,*6,*8]

Q307 8-729-117-84 s TRANSISTOR 2SK160A-K26
 [for *1,*2,*5,*6,*7,*8]

Q401 8-729-420-36 s TRANSISTOR XN2501
 Q402 8-729-402-84 s TRANSISTOR XN4601

Q403 8-729-420-36 s TRANSISTOR XN2501
 Q404 8-729-402-84 s TRANSISTOR XN4601

Q405 8-729-420-36 s TRANSISTOR XN2501
 Q406 8-729-402-84 s TRANSISTOR XN4601

Q407 8-729-420-36 s TRANSISTOR XN2501
 Q408 8-729-420-36 s TRANSISTOR XN2501

Q409 8-729-420-36 s TRANSISTOR XN2501

Q410 8-729-402-13 s TRANSISTOR XN1501
 Q411 8-729-122-63 s TRANSISTOR 2SA1226

Q412 8-729-420-36 s TRANSISTOR XN2501
 Q413 8-729-402-87 s TRANSISTOR XN2401

Q414 8-729-402-13 s TRANSISTOR XN1501
 Q415 8-729-122-63 s TRANSISTOR 2SA1226

Q416 8-729-420-36 s TRANSISTOR XN2501
 Q417 8-729-402-87 s TRANSISTOR XN2401

Q418 8-729-402-13 s TRANSISTOR XN1501

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Ref. No. or Q'ty	Part No.	SP Description
Q419	8-729-122-63	s TRANSISTOR 2SA1226
Q420	8-729-420-36	s TRANSISTOR XN2501
Q421	8-729-402-87	s TRANSISTOR XN2401
Q422	8-729-901-00	s TRANSISTOR DTC124EK
Q601	8-729-901-00	s TRANSISTOR DTC124EK
Q602	8-729-901-00	s TRANSISTOR DTC124EK
Q603	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q604	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q605	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q606	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q607	8-729-901-00	s TRANSISTOR DTC124EK
Q608	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q609	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q701	8-729-901-00	s TRANSISTOR DTC124EK
Q702	8-729-027-31	s TRANSISTOR DTA124EKA-T146 [for *3,*4,*6,*8]
Q703	8-729-120-28	s TRANSISTOR 2SC1623-L5L6 [for *3,*4,*6,*8]
Q704	8-729-901-00	s TRANSISTOR DTC124EK [for *3,*4,*6,*8]
Q705	8-729-027-31	s TRANSISTOR DTA124EKA-T146 [for *1,*2,*5,*6,*7,*8]
Q706	8-729-120-28	s TRANSISTOR 2SC1623-L5L6 [for *1,*2,*5,*6,*7,*8]
Q707	8-729-120-28	s TRANSISTOR 2SC1623-L5L6 [for *3,*4,*6,*8]
Q708	8-729-120-28	s TRANSISTOR 2SC1623-L5L6 [for *3,*4,*6,*8]
Q801	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q802	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q803	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q804	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q805	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q806	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q807	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q808	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q809	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q810	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q811	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q812	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q813	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q814	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q815	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q816	8-729-901-00	s TRANSISTOR DTC124EK
Q817	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q818	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q819	8-729-120-28	s TRANSISTOR 2SC1623-L5L6
Q901	8-729-901-00	s TRANSISTOR DTC124EK
Q902	8-729-901-00	s TRANSISTOR DTC124EK [for *6,*8]
Q911	8-729-402-13	s TRANSISTOR XN1501
Q912	8-729-122-63	s TRANSISTOR 2SA1226
Q913	8-729-420-36	s TRANSISTOR XN2501
Q914	8-729-402-87	s TRANSISTOR XN2401
Q915	8-729-402-13	s TRANSISTOR XN1501
Q916	8-729-122-63	s TRANSISTOR 2SA1226
Q917	8-729-402-87	s TRANSISTOR XN2401
Q918	8-729-402-13	s TRANSISTOR XN1501
Q919	8-729-122-63	s TRANSISTOR 2SA1226
Q920	8-729-402-87	s TRANSISTOR XN2401
Q921	8-729-402-84	s TRANSISTOR XN4601

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Ref. No. or Q'ty	Part No.	SP Description
Q922	8-729-402-84	s TRANSISTOR XN4601
Q923	8-729-420-36	s TRANSISTOR XN2501
Q924	8-729-420-36	s TRANSISTOR XN2501
R101	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R102	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R103	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R104	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R105	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R106	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R107	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R108	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R109	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R110	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R111	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R112	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R113	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R114	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R115	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R116	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R117	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R118	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R119	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R120	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R121	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R122	1-216-035-00	s METAL, CHIP 270 5% 1/10W
R123	1-216-035-00	s METAL, CHIP 270 5% 1/10W
R124	1-216-035-00	s METAL, CHIP 270 5% 1/10W
R125	1-216-063-91	s METAL 3.9K 5% 1/10W
R126	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R127	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R128	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R129	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R130	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R131	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R132	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R133	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R134	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R135	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R136	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R137	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R138	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R139	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R140	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R141	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R142	1-216-089-91	s METAL 47K 5% 1/10W
R143	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R144	1-216-097-91	s METAL 100K 5% 1/10W
R145	1-216-059-00	s METAL, CHIP 2.7K 5% 1/10W
R146	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R147	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R148	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R149	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R150	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R151	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R152	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R153	1-216-073-00	s METAL, CHIP 10K 5% 1/10W [for *1,*2,*5,*7]
R154	1-216-295-11	s METAL, CHIP 0 5% 1/10W [for *3,*4]
R201	1-216-081-00	s METAL, CHIP 22K 5% 1/10W

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Ref. No.
or Q'ty Part No. SP Description

R202 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R203 1-216-083-00 s METAL, CHIP 27K 5% 1/10W
 R204 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R205 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R206 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R207 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R208 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R209 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R210 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R211 1-216-039-00 s METAL, CHIP 390 5% 1/10W

R212 1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W
 R213 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R214 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R215 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R216 1-216-017-91 s METAL 47 5% 1/10W

R217 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R218 1-216-029-00 s METAL, CHIP 150 5% 1/10W
 R219 1-216-029-00 s METAL, CHIP 150 5% 1/10W
 R220 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R221 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

R222 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R223 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
 R224 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R225 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R226 1-216-025-00 s METAL, CHIP 100 5% 1/10W

R227 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R228 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
 R229 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R230 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R231 1-216-025-00 s METAL, CHIP 100 5% 1/10W

R232 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R233 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R234 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R237 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R240 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

R241 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R242 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R243 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R244 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R245 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

R246 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R247 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R301 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R302 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R303 1-216-025-00 s METAL, CHIP 100 5% 1/10W

R304 1-216-295-00 s METAL, CHIP 0 5% 1/10W [for *6,*8]
 R305 1-216-295-00 s METAL, CHIP 0 5% 1/10W [for *6,*8]
 R304 1-216-295-11 s METAL, CHIP 0 5% 1/10W [for *3,*4]
 R305 1-216-295-11 s METAL, CHIP 0 5% 1/10W [for *3,*4]
 R306 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 [for *3,*4,*6,*8]

R307 1-216-039-00 s METAL, CHIP 390 5% 1/10W
 [for *3,*4,*6,*8]
 R308 1-216-039-00 s METAL, CHIP 390 5% 1/10W
 [for *3,*4,*6,*8]
 R309 1-216-089-91 s METAL 47K 5% 1/10W
 R310 1-216-133-00 s METAL, CHIP 3.3M 5% 1/10W
 R311 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 R312 1-216-031-00 s METAL, CHIP 180 5% 1/10W

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Ref. No.
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R313 1-216-039-00 s METAL, CHIP 390 5% 1/10W
 R314 1-216-083-00 s METAL, CHIP 27K 5% 1/10W
 R315 1-216-083-00 s METAL, CHIP 27K 5% 1/10W
 R316 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R317 1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W

R318 1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W
 R319 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R320 1-216-133-00 s METAL, CHIP 3.3M 5% 1/10W
 R321 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R322 1-216-045-00 s METAL, CHIP 680 5% 1/10W

R323 1-216-029-00 s METAL, CHIP 150 5% 1/10W
 R324 1-216-017-91 s METAL 47 5% 1/10W
 R325 1-216-041-00 s METAL, CHIP 470 5% 1/10W
 R326 1-216-041-00 s METAL, CHIP 470 5% 1/10W
 R327 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

R328 1-216-041-00 s METAL, CHIP 470 5% 1/10W
 R329 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R330 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R331 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R332 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R333 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R334 1-216-041-00 s METAL, CHIP 470 5% 1/10W
 R335 1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W
 R336 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R337 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R338 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R339 1-216-079-00 s METAL, CHIP 18K 5% 1/10W
 R340 1-216-089-91 s METAL 47K 5% 1/10W
 R341 1-216-097-91 s METAL 100K 5% 1/10W
 R342 1-216-059-00 s METAL, CHIP 2.7K 5% 1/10W

R343 1-216-013-00 s METAL, CHIP 33 5% 1/10W
 R344 1-216-063-91 s METAL 3.9K 5% 1/10W
 R345 1-216-097-91 s METAL 100K 5% 1/10W
 R346 1-216-013-00 s METAL, CHIP 33 5% 1/10W
 R347 1-216-097-91 s METAL 100K 5% 1/10W

R348 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R349 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R350 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R351 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 [for *3,*4,*6,*8]

R352 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 [for *1,*2,*5,*6,*7,*8]

R401 1-216-013-00 s METAL, CHIP 33 5% 1/10W
 R402 1-216-013-00 s METAL, CHIP 33 5% 1/10W
 R403 1-216-013-00 s METAL, CHIP 33 5% 1/10W
 R404 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R405 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R406 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R407 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R408 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R409 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R410 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R411 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R412 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R413 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R414 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R415 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R416 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R417 1-216-025-00 s METAL, CHIP 100 5% 1/10W

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Ref. No. or Q'ty	Part No.	SP Description
R418	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R419	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R420	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R421	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R422	1-216-051-00	s METAL, CHIP 1.2K 5% 1/10W
R423	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R424	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R425	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R426	1-216-051-00	s METAL, CHIP 1.2K 5% 1/10W
R427	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R428	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R429	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R430	1-216-051-00	s METAL, CHIP 1.2K 5% 1/10W
R431	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R432	1-216-051-00	s METAL, CHIP 1.2K 5% 1/10W
R433	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R434	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R435	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R436	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R437	1-216-309-00	s METAL 5.6 5% 1/10W
R438	1-216-309-00	s METAL 5.6 5% 1/10W
R439	1-216-023-00	s METAL, CHIP 82 5% 1/10W
R441	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R442	1-216-051-00	s METAL, CHIP 1.2K 5% 1/10W
R443	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R444	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R445	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R446	1-216-309-00	s METAL 5.6 5% 1/10W
R447	1-216-309-00	s METAL 5.6 5% 1/10W
R448	1-216-023-00	s METAL, CHIP 82 5% 1/10W
R450	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R451	1-216-051-00	s METAL, CHIP 1.2K 5% 1/10W
R452	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R453	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R454	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R455	1-216-309-00	s METAL 5.6 5% 1/10W
R456	1-216-309-00	s METAL 5.6 5% 1/10W
R457	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R458	1-216-023-00	s METAL, CHIP 82 5% 1/10W
R460	1-216-295-00	s METAL, CHIP 0 5% 1/10W [for *1,*2,*5,*6,*7,*8]
R460	1-216-295-11	s METAL, CHIP 0 5% 1/10W[for *3,*4]
R461	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R462	1-216-089-91	s METAL, CHIP 47K 5% 1/10W
R463	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R464	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R465	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R467	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R468	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R469	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R471	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R601	1-216-059-00	s METAL, CHIP 2.7K 5% 1/10W
R602	1-216-067-00	s METAL, CHIP 5.6K 5% 1/10W
R603	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R604	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R605	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R606	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R607	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R608	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SP Description
R609	1-216-091-00	s METAL, CHIP 56K 5% 1/10W
R610	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R611	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R612	1-216-043-00	s METAL, CHIP 560 5% 1/10W
R613	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R614	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R615	1-216-101-00	s METAL, CHIP 150K 5% 1/10W
R616	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R617	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R618	1-216-097-91	s METAL 100K 5% 1/10W
R619	1-216-099-00	s METAL, CHIP 120K 5% 1/10W
R620	1-216-075-00	s METAL, CHIP 12K 5% 1/10W
R621	1-216-113-00	s METAL, CHIP 470K 5% 1/10W
R622	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R623	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R624	1-216-079-00	s METAL, CHIP 18K 5% 1/10W
R625	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R626	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R627	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R628	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R629	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W
R630	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R631	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R632	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R633	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W
R634	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R635	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R636	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R637	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R638	1-216-295-00	s METAL, CHIP 0 5% 1/10W [for *1,*2,*5,*6,*7,*8]
R638	1-216-295-11	s METAL, CHIP 0 5% 1/10W[for *3,*4]
R639	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R640	1-216-013-00	s METAL, CHIP 33 5% 1/10W
R641	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R642	1-216-021-00	s METAL, CHIP 68 5% 1/10W
R643	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R644	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R646	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R649	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R650	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R651	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R652	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R653	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R654	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R655	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R656	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R657	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R658	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R659	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R660	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R661	1-216-097-91	s METAL 100K 5% 1/10W
R662	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R663	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R664	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R665	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R666	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R667	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R668	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W

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Ref. No.
or Q'ty Part No. SP Description

R669 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R670 1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W
 R671 1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W
 R672 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R701 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W

R702 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 [for *3,*4,*6,*8]
 R703 1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W
 [for *3,*4,*6,*8]
 R704 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 [for *3,*4,*6,*8]
 R706 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 [for *3,*4,*6,*8]
 R707 1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W
 [for *1,*2,*5,*6,*7,*8]

R708 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 [for *1,*2,*5,*6,*7,*8]
 R709 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 [for *1,*2,*5,*6,*7,*8]
 R709 1-216-295-11 s METAL, CHIP 0 5% 1/10W [for *3,*4]
 R710 1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W
 [for *3,*4,*6,*8]
 R711 1-216-295-00 s METAL, CHIP 0 5% 1/10W
 [for *1,*2,*5,*7]
 R711 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 [for *3,*4,*6,*8]
 R712 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 [for *3,*4,*6,*8]
 R713 1-216-097-91 s METAL 100K 5% 1/10W
 [for *3,*4,*6,*8]
 R714 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 [for *3,*4,*6,*8]
 R715 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 [for *3,*4,*6,*8]

R716 1-216-105-91 s METAL, CHIP 220K 5% 1/10W
 [for *3,*4,*6,*8]
 R717 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 [for *3,*4,*6,*8]
 R718 1-216-295-00 s METAL, CHIP 0 5% 1/10W
 [for *1,*2,*5,*7]
 R801 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 R802 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W

R803 1-216-045-00 s METAL, CHIP 680 5% 1/10W
 R804 1-216-045-00 s METAL, CHIP 680 5% 1/10W
 R805 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 R806 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R807 1-216-045-00 s METAL, CHIP 680 5% 1/10W

R808 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 R809 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R810 1-216-035-00 s METAL, CHIP 270 5% 1/10W
 R811 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R812 1-216-025-00 s METAL, CHIP 100 5% 1/10W

R813 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R814 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 R815 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R816 1-216-041-00 s METAL, CHIP 470 5% 1/10W
 R817 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R818 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R819 1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W
 R820 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R821 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 R822 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

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Ref. No.
or Q'ty Part No. SP Description

R823 1-216-035-00 s METAL, CHIP 270 5% 1/10W
 R824 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R825 1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W
 R826 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R827 1-216-085-00 s METAL, CHIP 33K 5% 1/10W

R828 1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W
 R829 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R830 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R831 1-216-085-00 s METAL, CHIP 33K 5% 1/10W
 R832 1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W

R833 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R834 1-216-085-00 s METAL, CHIP 33K 5% 1/10W
 R835 1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W
 R836 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R837 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R838 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R839 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R840 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R841 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R842 1-216-025-00 s METAL, CHIP 100 5% 1/10W

R843 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R844 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R845 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R846 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R847 1-216-295-00 s METAL, CHIP 0 5% 1/10W [for *6,*8]

R848 1-216-295-00 s METAL, CHIP 0 5% 1/10W
 [for *1,*2,*5,*6,*7,*8]
 R848 1-216-295-11 s METAL, CHIP 0 5% 1/10W [for *3,*4]
 R849 1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W
 R850 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R851 1-216-081-00 s METAL, CHIP 22K 5% 1/10W

R852 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R853 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R901 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R902 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R903 1-216-089-91 s METAL 47K 5% 1/10W

R904 1-216-077-00 s METAL, CHIP 15K 5% 1/10W
 R905 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R906 1-216-063-91 s METAL 3.9K 5% 1/10W
 [for *1,*2,*5,*6,*7,*8]
 R906 1-216-295-11 s METAL, CHIP 0 5% 1/10W [for *3,*4]
 R907 1-216-029-00 s METAL, CHIP 150 5% 1/10W

R908 1-216-029-00 s METAL, CHIP 150 5% 1/10W
 R910 1-216-029-00 s METAL, CHIP 150 5% 1/10W
 R911 1-216-029-00 s METAL, CHIP 150 5% 1/10W
 R912 1-216-029-00 s METAL, CHIP 150 5% 1/10W
 R913 1-216-029-00 s METAL, CHIP 150 5% 1/10W

R939 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R940 1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W
 R941 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 R942 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R943 1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W

R944 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R945 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R946 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R947 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R948 1-216-029-00 s METAL, CHIP 150 5% 1/10W

R949 1-216-029-00 s METAL, CHIP 150 5% 1/10W
 R950 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

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Ref. No. or Q'ty	Part No.	SP Description
R951	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R952	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R953	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R954	1-216-051-00	s METAL, CHIP 1.2K 5% 1/10W
R955	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R956	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R957	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R958	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R959	1-216-309-00	s METAL 5.6 5% 1/10W
R960	1-216-309-00	s METAL 5.6 5% 1/10W
R961	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R962	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R963	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R964	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R965	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R966	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R967	1-216-051-00	s METAL, CHIP 1.2K 5% 1/10W
R968	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R969	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R970	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R971	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R972	1-216-309-00	s METAL 5.6 5% 1/10W
R973	1-216-309-00	s METAL 5.6 5% 1/10W
R974	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R975	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R976	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R977	1-216-063-91	s METAL 3.9K 5% 1/10W
R978	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R979	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R980	1-216-309-00	s METAL 5.6 5% 1/10W
R981	1-216-309-00	s METAL 5.6 5% 1/10W
R982	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R983	1-216-027-00	s METAL, CHIP 120 5% 1/10W
R984	1-216-031-00	s METAL, CHIP 180 5% 1/10W
R985	1-216-309-00	s METAL 5.6 5% 1/10W
R986	1-216-309-00	s METAL 5.6 5% 1/10W
RV101	1-238-852-11	s RES, ADJ, CERMET 470
RV102	1-238-852-11	s RES, ADJ, CERMET 470
RV103	1-238-852-11	s RES, ADJ, CERMET 470
RV201	1-238-856-11	s RES, ADJ, METAL 10K
RV301	1-238-858-11	s RES, ADJ, METAL 47K [for *3,*4,*6,*8]
RV302	1-238-852-11	s RES, ADJ, CERMET 470 [for *3,*4,*6,*8]
RV303	1-238-855-11	s RES, ADJ, METAL 4.7K
RV304	1-238-853-11	s RES, ADJ, METAL 1K
RV305	1-238-853-11	s RES, ADJ, METAL 1K
RV306	1-238-855-11	s RES, ADJ, METAL 4.7K
RV307	1-238-855-11	s RES, ADJ, METAL 4.7K
RV401	1-238-855-11	s RES, ADJ, METAL 4.7K
RV601	1-238-854-11	s RES, ADJ, METAL 2.2K
RV801	1-238-852-11	s RES, ADJ, CERMET 470
RV803	1-238-852-11	s RES, ADJ, CERMET 470
RV901	1-238-853-11	s RES, ADJ, METAL 1K
RV902	1-238-853-11	s RES, ADJ, METAL 1K
RV903	1-238-853-11	s RES, ADJ, METAL 1K
X301	1-567-504-11	s CRYSTAL 4.433619MHz [for *3,*4,*6,*8]

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Ref. No. or Q'ty	Part No.	SP Description
X302	1-567-505-11	s CRYSTAL 3.579545MHz [for *1,*2,*5,*6,*7,*8]
X303	1-760-593-21	s VIBRATOR, CERAMIC 50.0KHz
X601	1-760-593-21	s VIBRATOR, CERAMIC 50.0KHz
X602	1-527-722-00	s OSCILLATOR, CRYSTAL 14.31818MHz [for *1,*2,*5,*6,*7,*8]
X603	1-579-057-11	s VIBRATOR, CRYSTAL [for *3,*4,*6,*8]
X701	1-579-780-21	s VIBRATOR, CRYSTAL 17.734475MHz [for *3,*4,*6,*8]
X702	1-767-032-11	s CRYSTAL, 14.1875MHz [for *3,*4,*6,*8]
X703	1-579-738-21	s VIBRATOR, CRYSTAL 14.318182MHz [for *1,*2,*5,*6,*7,*8]

VA-181[FOR UP-2300/2300P]

Ref. No.
or Q'ty Part No. SP Description

lpc	A-8316-223-A o MOUNTED CIRCUIT BOARD, VA-181(N3) [for UP-2300]
lpc	A-8316-237-A o MOUNTED CIRCUIT BOARD, VA-181(P3) [for UP-2300P]
C104	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
C105	1-163-038-91 s CERAMIC 0.1uF 25V
C114	1-163-038-91 s CERAMIC 0.1uF 25V
C115	1-163-038-91 s CERAMIC 0.1uF 25V
C116	1-163-038-91 s CERAMIC 0.1uF 25V
C121	1-163-038-91 s CERAMIC 0.1uF 25V [for UP-2300P]
C122	1-163-038-91 s CERAMIC 0.1uF 25V [for UP-2300P]
C123	1-163-275-11 s CERAMIC 0.001uF 5% 50V
C128	1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
C129	1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
C130	1-163-038-91 s CERAMIC 0.1uF 25V
C131	1-163-038-91 s CERAMIC 0.1uF 25V
C132	1-163-038-91 s CERAMIC 0.1uF 25V
C133	1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
C134	1-163-231-11 s CERAMIC 15PF 5% 50V
C135	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
C136	1-163-038-91 s CERAMIC 0.1uF 25V
C137	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
C138	1-163-038-91 s CERAMIC 0.1uF 25V
C139	1-163-038-91 s CERAMIC 0.1uF 25V
C140	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
C141	1-163-038-91 s CERAMIC 0.1uF 25V
C142	1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
C143	1-126-396-11 s ELECT, CHIP 47uF 20% 16V
C144	1-163-038-91 s CERAMIC 0.1uF 25V
C145	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
C146	1-163-038-91 s CERAMIC 0.1uF 25V
C147	1-126-396-11 s ELECT, CHIP 47uF 20% 16V
C148	1-163-038-91 s CERAMIC 0.1uF 25V
C149	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
C150	1-163-038-91 s CERAMIC 0.1uF 25V
C151	1-126-394-11 s ELECT, CHIP 10uF 20% 16V
C152	1-163-038-91 s CERAMIC 0.1uF 25V
C153	1-126-395-11 s ELECT, CHIP 22uF 20% 16V
C154	1-163-038-91 s CERAMIC 0.1uF 25V
C155	1-126-395-11 s ELECT, CHIP 22uF 20% 16V
C156	1-163-038-91 s CERAMIC 0.1uF 25V
C158	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
C159	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
C201	1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
C202	1-163-038-91 s CERAMIC 0.1uF 25V
C203	1-163-087-00 s CERAMIC, CHIP 4PF 50V
C204	1-126-401-11 s ELECT, CHIP 1uF 20% 50V
C205	1-163-038-91 s CERAMIC 0.1uF 25V
C206	1-163-038-91 s CERAMIC 0.1uF 25V
C207	1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
C208	1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
C212	1-163-038-91 s CERAMIC 0.1uF 25V
C213	1-163-038-91 s CERAMIC 0.1uF 25V

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Ref. No.
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C214	1-163-038-91 s CERAMIC 0.1uF 25V
C215	1-163-038-91 s CERAMIC 0.1uF 25V
C216	1-163-038-91 s CERAMIC 0.1uF 25V
C217	1-163-038-91 s CERAMIC 0.1uF 25V
C218	1-163-038-91 s CERAMIC 0.1uF 25V
C219	1-163-038-91 s CERAMIC 0.1uF 25V
C220	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
C221	1-163-038-91 s CERAMIC 0.1uF 25V
C222	1-163-038-91 s CERAMIC 0.1uF 25V
C223	1-163-038-91 s CERAMIC 0.1uF 25V
C224	1-163-038-91 s CERAMIC 0.1uF 25V
C225	1-163-038-91 s CERAMIC 0.1uF 25V
C226	1-163-038-91 s CERAMIC 0.1uF 25V
C227	1-163-038-91 s CERAMIC 0.1uF 25V
C228	1-163-038-91 s CERAMIC 0.1uF 25V
C229	1-163-038-91 s CERAMIC 0.1uF 25V
C230	1-163-227-11 s CERAMIC, CHIP 10PF 5% 50V
C301	1-126-396-11 s ELECT, CHIP 47uF 20% 16V
C302	1-163-038-91 s CERAMIC 0.1uF 25V
C303	1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
C304	1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
C305	1-163-038-91 s CERAMIC 0.1uF 25V
C306	1-163-038-91 s CERAMIC 0.1uF 25V
C307	1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
C308	1-163-275-11 s CERAMIC 0.001uF 5% 50V
C309	1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V
C310	1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
C311	1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
C312	1-126-395-11 s ELECT, CHIP 22uF 20% 16V
C313	1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V [for UP-2300P]
C314	1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V [for UP-2300]
C315	1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V [for UP-2300]
C316	1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
C317	1-164-695-11 s CERAMIC 0.0022uF 5% 50V
C318	1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V [for UP-2300]
C319	1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V [for UP-2300P]
C320	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
C321	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
C322	1-163-038-91 s CERAMIC 0.1uF 25V
C323	1-164-346-11 s CERAMIC 1uF 16V
C324	1-163-038-91 s CERAMIC 0.1uF 25V
C325	1-126-394-11 s ELECT, CHIP 10uF 20% 16V
C326	1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
C327	1-163-038-91 s CERAMIC 0.1uF 25V
C328	1-126-395-11 s ELECT, CHIP 22uF 20% 16V
C329	1-163-038-91 s CERAMIC 0.1uF 25V
C330	1-163-038-91 s CERAMIC 0.1uF 25V
C331	1-163-038-91 s CERAMIC 0.1uF 25V
C332	1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
C333	1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
C334	1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
C335	1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
C336	1-126-402-11 s ELECT, CHIP 2.2uF 20% 50V
C337	1-163-038-91 s CERAMIC 0.1uF 25V
C338	1-126-394-11 s ELECT, CHIP 10uF 20% 16V

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C339 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C340 1-163-038-91 s CERAMIC 0.1uF 25V
 C341 1-163-038-91 s CERAMIC 0.1uF 25V
 C342 1-163-038-91 s CERAMIC 0.1uF 25V
 C343 1-163-038-91 s CERAMIC 0.1uF 25V

C344 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
 C345 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
 C346 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
 C347 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
 C348 1-163-038-91 s CERAMIC 0.1uF 25V

C349 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C350 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C351 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C352 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
 C353 1-163-038-91 s CERAMIC 0.1uF 25V

C354 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
 C355 1-163-038-91 s CERAMIC 0.1uF 25V
 C356 1-163-038-91 s CERAMIC 0.1uF 25V
 C357 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
 C358 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V

C359 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
 C360 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
 C361 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
 C362 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V
 C363 1-164-232-11 s CERAMIC, CHIP 0.01uF 10% 50V

C401 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C402 1-163-038-91 s CERAMIC 0.1uF 25V
 C403 1-163-038-91 s CERAMIC 0.1uF 25V
 C404 1-163-038-91 s CERAMIC 0.1uF 25V
 C405 1-126-394-11 s ELECT, CHIP 10uF 20% 16V

C406 1-163-038-91 s CERAMIC 0.1uF 25V
 C407 1-163-038-91 s CERAMIC 0.1uF 25V
 C408 1-163-038-91 s CERAMIC 0.1uF 25V
 C409 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C410 1-163-038-91 s CERAMIC 0.1uF 25V

C411 1-163-038-91 s CERAMIC 0.1uF 25V
 C412 1-163-038-91 s CERAMIC 0.1uF 25V
 C413 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C414 1-163-038-91 s CERAMIC 0.1uF 25V
 C415 1-163-038-91 s CERAMIC 0.1uF 25V

C416 1-163-038-91 s CERAMIC 0.1uF 25V
 C417 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C418 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C419 1-163-038-91 s CERAMIC 0.1uF 25V
 C420 1-163-038-91 s CERAMIC 0.1uF 25V

C421 1-163-038-91 s CERAMIC 0.1uF 25V
 C422 1-163-038-91 s CERAMIC 0.1uF 25V
 C423 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C425 1-163-038-91 s CERAMIC 0.1uF 25V
 C426 1-163-038-91 s CERAMIC 0.1uF 25V

C427 1-163-089-00 s CERAMIC, CHIP 6PF 50V
 C428 1-163-089-00 s CERAMIC, CHIP 6PF 50V
 C429 1-163-038-91 s CERAMIC 0.1uF 25V
 C430 1-163-038-91 s CERAMIC 0.1uF 25V
 C431 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V

C432 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C434 1-163-038-91 s CERAMIC 0.1uF 25V
 C435 1-163-038-91 s CERAMIC 0.1uF 25V
 C436 1-163-089-00 s CERAMIC, CHIP 6PF 50V

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Ref. No.
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C437 1-163-089-00 s CERAMIC, CHIP 6PF 50V
 C438 1-163-038-91 s CERAMIC 0.1uF 25V
 C439 1-163-038-91 s CERAMIC 0.1uF 25V
 C440 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C441 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V

C443 1-163-038-91 s CERAMIC 0.1uF 25V
 C444 1-163-038-91 s CERAMIC 0.1uF 25V
 C445 1-163-089-00 s CERAMIC, CHIP 6PF 50V
 C446 1-163-089-00 s CERAMIC, CHIP 6PF 50V
 C447 1-163-038-91 s CERAMIC 0.1uF 25V

C448 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C449 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C450 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C451 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C452 1-163-038-91 s CERAMIC 0.1uF 25V

C453 1-163-038-91 s CERAMIC 0.1uF 25V
 C454 1-163-038-91 s CERAMIC 0.1uF 25V
 C456 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C457 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C458 1-163-038-91 s CERAMIC 0.1uF 25V

C459 1-163-038-91 s CERAMIC 0.1uF 25V
 C460 1-163-038-91 s CERAMIC 0.1uF 25V
 C601 1-163-275-11 s CERAMIC 0.001uF 5% 50V
 C602 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C603 1-163-038-91 s CERAMIC 0.1uF 25V

C604 1-163-275-11 s CERAMIC 0.001uF 5% 50V
 C605 1-163-275-11 s CERAMIC 0.001uF 5% 50V
 C606 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C607 1-163-038-91 s CERAMIC 0.1uF 25V
 C608 1-163-038-91 s CERAMIC 0.1uF 25V

C609 1-163-038-91 s CERAMIC 0.1uF 25V
 C610 1-163-038-91 s CERAMIC 0.1uF 25V
 C611 1-163-038-91 s CERAMIC 0.1uF 25V
 C612 1-163-038-91 s CERAMIC 0.1uF 25V
 C613 1-163-038-91 s CERAMIC 0.1uF 25V

C614 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C615 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
 C616 1-163-263-11 s CERAMIC, CHIP 330PF 5% 50V
 C617 1-126-402-11 s ELECT, CHIP 2.2uF 20% 50V
 C618 1-126-394-11 s ELECT, CHIP 10uF 20% 16V

C619 1-163-038-91 s CERAMIC 0.1uF 25V
 C620 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C621 1-163-038-91 s CERAMIC 0.1uF 25V
 C622 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V
 C623 1-104-760-11 s CERAMIC, CHIP 0.047uF 10% 50V

C624 1-163-038-91 s CERAMIC 0.1uF 25V
 C625 1-163-275-11 s CERAMIC 0.001uF 5% 50V
 C626 1-163-038-91 s CERAMIC 0.1uF 25V
 C627 1-163-275-11 s CERAMIC 0.001uF 5% 50V
 C628 1-163-038-91 s CERAMIC 0.1uF 25V

C629 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C630 1-126-402-11 s ELECT, CHIP 2.2uF 20% 50V
 C631 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V
 C632 1-163-038-91 s CERAMIC 0.1uF 25V
 C633 1-163-275-11 s CERAMIC 0.001uF 5% 50V

C634 1-163-038-91 s CERAMIC 0.1uF 25V
 C635 1-163-038-91 s CERAMIC 0.1uF 25V
 C636 1-163-017-00 s CERAMIC, CHIP 0.0047uF 5% 50V
 C637 1-163-038-91 s CERAMIC 0.1uF 25V

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Ref. No. or Q'ty	Part No.	SP Description
C638	1-126-391-11 s	ELECT, CHIP 47uF 20% 6.3V
C639	1-126-401-11 s	ELECT, CHIP 1uF 20% 50V
C640	1-104-760-11 s	CERAMIC, CHIP 0.047uF 10% 50V
C641	1-163-227-11 s	CERAMIC, CHIP 10PF 5% 50V
C642	1-163-038-91 s	CERAMIC 0.1uF 25V
C643	1-163-275-11 s	CERAMIC 0.001uF 5% 50V
C644	1-163-091-00 s	CERAMIC, CHIP 8PF 50V [for UP-2300]
C645	1-163-091-00 s	CERAMIC, CHIP 8PF 50V [for UP-2300P]
C646	1-164-161-11 s	CERAMIC, CHIP 0.0022uF 10% 100V
C647	1-104-760-11 s	CERAMIC, CHIP 0.047uF 10% 50V
C648	1-163-038-91 s	CERAMIC 0.1uF 25V
C649	1-163-038-91 s	CERAMIC 0.1uF 25V
C650	1-164-232-11 s	CERAMIC, CHIP 0.01uF 10% 50V
C651	1-163-038-91 s	CERAMIC 0.1uF 25V
C652	1-163-038-91 s	CERAMIC 0.1uF 25V
C653	1-164-232-11 s	CERAMIC, CHIP 0.01uF 10% 50V [for UP-2300P]
C654	1-164-232-11 s	CERAMIC, CHIP 0.01uF 10% 50V [for UP-2300]
C655	1-163-038-91 s	CERAMIC 0.1uF 25V
C656	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C657	1-163-038-91 s	CERAMIC 0.1uF 25V
C658	1-163-038-91 s	CERAMIC 0.1uF 25V
C659	1-163-038-91 s	CERAMIC 0.1uF 25V
C660	1-126-391-11 s	ELECT, CHIP 47uF 20% 6.3V
C661	1-163-038-91 s	CERAMIC 0.1uF 25V
C662	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C663	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C664	1-163-251-11 s	CERAMIC, CHIP 100PF 5% 50V
C665	1-163-038-91 s	CERAMIC 0.1uF 25V
C666	1-164-232-11 s	CERAMIC, CHIP 0.01uF 10% 50V
C667	1-163-038-91 s	CERAMIC 0.1uF 25V
C668	1-163-038-91 s	CERAMIC 0.1uF 25V
C669	1-163-038-91 s	CERAMIC 0.1uF 25V
C670	1-163-038-91 s	CERAMIC 0.1uF 25V
C671	1-163-037-11 s	CERAMIC, CHIP 0.022uF 10% 25V
C672	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C673	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C674	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V
C676	1-163-038-91 s	CERAMIC 0.1uF 25V
C677	1-126-391-11 s	ELECT, CHIP 47uF 20% 6.3V
C678	1-163-038-91 s	CERAMIC 0.1uF 25V
C679	1-164-232-11 s	CERAMIC, CHIP 0.01uF 10% 50V
C680	1-163-038-91 s	CERAMIC 0.1uF 25V
C698	1-126-412-11 s	ELECT 220uF 20% 4V
C699	1-163-038-91 s	CERAMIC 0.1uF 25V
C701	1-163-038-91 s	CERAMIC 0.1uF 25V [for UP-2300P]
C702	1-163-227-11 s	CERAMIC, CHIP 10PF 5% 50V [for UP-2300P]
C703	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V [for UP-2300P]
C704	1-163-009-11 s	CERAMIC, CHIP 0.001uF 10% 50V [for UP-2300P]
C705	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V [for UP-2300P]
C706	1-163-038-91 s	CERAMIC 0.1uF 25V
C707	1-163-038-91 s	CERAMIC 0.1uF 25V [for UP-2300]
C708	1-163-227-11 s	CERAMIC, CHIP 10PF 5% 50V [for UP-2300]

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Ref. No. or Q'ty	Part No.	SP Description
C709	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V [for UP-2300]
C710	1-163-243-11 s	CERAMIC, CHIP 47PF 5% 50V [for UP-2300]
C711	1-163-009-11 s	CERAMIC, CHIP 0.001uF 10% 50V
C712	1-163-038-91 s	CERAMIC 0.1uF 25V
C713	1-163-241-11 s	CERAMIC, CHIP 39PF 5% 50V [for UP-2300P]
C714	1-163-009-11 s	CERAMIC, CHIP 0.001uF 10% 50V
C715	1-163-241-11 s	CERAMIC, CHIP 39PF 5% 50V [for UP-2300P]
C717	1-163-038-91 s	CERAMIC 0.1uF 25V [for UP-2300P]
C718	1-163-009-11 s	CERAMIC, CHIP 0.001uF 10% 50V [for UP-2300P]
C719	1-126-402-11 s	ELECT, CHIP 2.2uF 20% 50V [for UP-2300P]
C720	1-163-038-91 s	CERAMIC 0.1uF 25V [for UP-2300P]
C721	1-126-391-11 s	ELECT, CHIP 47uF 20% 6.3V
C801	1-126-391-11 s	ELECT, CHIP 47uF 20% 6.3V
C802	1-126-390-11 s	ELECT, CHIP 22uF 20% 6.3V
C803	1-163-038-91 s	CERAMIC 0.1uF 25V
C804	1-163-038-91 s	CERAMIC 0.1uF 25V
C805	1-126-390-11 s	ELECT, CHIP 22uF 20% 6.3V
C806	1-163-038-91 s	CERAMIC 0.1uF 25V
C807	1-126-391-11 s	ELECT, CHIP 47uF 20% 6.3V
C808	1-126-390-11 s	ELECT, CHIP 22uF 20% 6.3V
C809	1-163-038-91 s	CERAMIC 0.1uF 25V
C810	1-164-232-11 s	CERAMIC, CHIP 0.01uF 10% 50V
C811	1-126-390-11 s	ELECT, CHIP 22uF 20% 6.3V
C812	1-163-038-91 s	CERAMIC 0.1uF 25V
C813	1-126-401-11 s	ELECT, CHIP 1uF 20% 50V
C814	1-126-391-11 s	ELECT, CHIP 47uF 20% 6.3V
C815	1-163-038-91 s	CERAMIC 0.1uF 25V
C816	1-126-390-11 s	ELECT, CHIP 22uF 20% 6.3V
C817	1-163-038-91 s	CERAMIC 0.1uF 25V
C818	1-126-390-11 s	ELECT, CHIP 22uF 20% 6.3V
C819	1-163-038-91 s	CERAMIC 0.1uF 25V
C820	1-163-038-91 s	CERAMIC 0.1uF 25V
C821	1-163-038-91 s	CERAMIC 0.1uF 25V
C822	1-163-038-91 s	CERAMIC 0.1uF 25V
C823	1-126-401-11 s	ELECT, CHIP 1uF 20% 50V
C824	1-126-401-11 s	ELECT, CHIP 1uF 20% 50V
C825	1-126-401-11 s	ELECT, CHIP 1uF 20% 50V
C826	1-126-401-11 s	ELECT, CHIP 1uF 20% 50V
C827	1-126-401-11 s	ELECT, CHIP 1uF 20% 50V
C828	1-163-038-91 s	CERAMIC 0.1uF 25V
C829	1-126-394-11 s	ELECT, CHIP 10uF 20% 16V
C830	1-163-038-91 s	CERAMIC 0.1uF 25V
C831	1-163-038-91 s	CERAMIC 0.1uF 25V
C832	1-163-038-91 s	CERAMIC 0.1uF 25V
C833	1-163-038-91 s	CERAMIC 0.1uF 25V
C834	1-163-038-91 s	CERAMIC 0.1uF 25V
C835	1-163-038-91 s	CERAMIC 0.1uF 25V
C836	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C837	1-126-392-11 s	ELECT, CHIP 100uF 20% 6.3V
C838	1-163-038-91 s	CERAMIC 0.1uF 25V
C839	1-163-038-91 s	CERAMIC 0.1uF 25V
C901	1-163-038-91 s	CERAMIC 0.1uF 25V
C902	1-163-038-91 s	CERAMIC 0.1uF 25V
C903	1-163-038-91 s	CERAMIC 0.1uF 25V

(VA-181[FOR UP-2300/2300P])

Ref. No.
or Q'ty Part No. SP Description

C904 1-163-038-91 s CERAMIC 0.1uF 25V
 C905 1-163-038-91 s CERAMIC 0.1uF 25V
 C906 1-163-089-00 s CERAMIC, CHIP 6PF 50V
 C907 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C908 1-163-038-91 s CERAMIC 0.1uF 25V

C909 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C910 1-163-038-91 s CERAMIC 0.1uF 25V
 C911 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C912 1-163-038-91 s CERAMIC 0.1uF 25V
 C913 1-126-412-11 s ELECT 220uF 20% 4V

C914 1-126-412-11 s ELECT 220uF 20% 4V
 C915 1-163-038-91 s CERAMIC 0.1uF 25V
 C916 1-126-412-11 s ELECT 220uF 20% 4V
 C917 1-126-412-11 s ELECT 220uF 20% 4V
 C952 1-163-038-91 s CERAMIC 0.1uF 25V [for UP-2300]

C964 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C965 1-163-038-91 s CERAMIC 0.1uF 25V
 C966 1-163-038-91 s CERAMIC 0.1uF 25V
 C972 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C974 1-163-038-91 s CERAMIC 0.1uF 25V

CN101 1-774-287-11 s CONNECTOR, FFC/FPC 22P
 CN102 1-779-992-11 s PIN, CONNECTOR 8P
 CN103 1-778-331-11 s CONNECTOR, FFC/FPC 16P
 CN104 1-774-770-11 s CONNECTOR, FFC/FPC 30P
 CN105 1-774-287-11 s CONNECTOR, FFC/FPC 22P

CN106 1-774-767-11 s CONNECTOR, FFC/FPC 15P

CV301 1-141-368-11 s CAP, CHIP TRIMMER [for UP-2300P]
 CV302 1-141-368-11 s CAP, CHIP TRIMMER [for UP-2300]
 CV601 1-141-311-11 s VAR, TRIMMER 20PF [for UP-2300]
 CV602 1-141-311-11 s VAR, TRIMMER 20PF [for UP-2300P]
 CV701 1-141-311-11 s VAR, TRIMMER 20PF [for UP-2300P]

CV702 1-141-311-11 s VAR, TRIMMER 20PF [for UP-2300P]
 CV703 1-141-311-11 s VAR, TRIMMER 20PF [for UP-2300]

D201 8-719-800-76 s DIODE 1SS226
 D202 8-719-800-76 s DIODE 1SS226
 D401 8-719-976-96 s DIODE DTZ4.7C
 D701 8-713-102-23 s DIODE 1T362A-M20E-T8A
 [for UP-2300P]

DL101 1-415-761-21 s DELAY LINE, LC
 DL102 1-415-760-21 s DELAY LINE, LC
 DL301 1-415-313-00 s DELAY LINE (1H) [for UP-2300P]

FL201 1-239-563-11 s FILTER, LOW PASS
 FL202 1-239-563-11 s FILTER, LOW PASS
 FL203 1-239-563-11 s FILTER, LOW PASS
 FL301 1-239-564-11 s FILTER, LOW-PASS
 FL302 1-239-564-11 s FILTER, LOW-PASS

FL303 1-239-564-11 s FILTER, LOW-PASS

IC101 8-759-038-15 s IC MC74HC4538AF
 IC103 8-759-710-86 s IC NJM2233BM
 IC104 8-759-157-17 s IC PQ05SZ1U
 IC105 8-759-157-17 s IC PQ05SZ1U
 IC106 8-759-168-19 s IC TA78L09F-TE12L

IC201 8-752-352-20 s IC CXD2023Q [for UP-2300]
 IC201 8-752-372-78 s IC CXD2024AQ [for UP-2300P]
 IC301 8-752-058-64 s IC CXA1213BS
 IC302 8-759-062-66 s IC TC7S66F
 IC303 8-759-062-66 s IC TC7S66F

(VA-181[FOR UP-2300/2300P])

Ref. No.
or Q'ty Part No. SP Description

IC304 8-759-983-69 s IC LM358PS
 IC305 8-759-710-86 s IC NJM2233BM
 IC306 8-759-710-86 s IC NJM2233BM
 IC307 8-759-710-86 s IC NJM2233BM
 IC308 8-759-262-00 s IC MC14576CF

IC401 8-759-062-66 s IC TC7S66F
 IC402 8-759-062-66 s IC TC7S66F
 IC403 8-759-062-66 s IC TC7S66F
 IC404 8-752-053-21 s IC CXA1211M
 IC405 8-752-053-21 s IC CXA1211M

IC406 8-752-053-21 s IC CXA1211M
 IC407 8-759-983-69 s IC LM358PS
 IC408 8-759-242-64 s IC TC4W53F
 IC409 8-759-983-69 s IC LM358PS
 IC601 8-759-038-15 s IC MC74HC4538AF

IC602 8-759-710-12 s IC NJM2230M
 IC603 8-759-242-64 s IC TC4W53F
 IC604 8-759-038-15 s IC MC74HC4538AF
 IC605 8-759-242-64 s IC TC4W53F
 IC606 8-752-039-91 s IC CXA1437Q

IC607 8-759-101-12 s IC UPC311G2
 IC608 8-752-062-80 s IC CXA1686M
 IC609 8-759-929-26 s IC TL431CPS
 IC610 8-759-100-95 s IC UPC324G2
 IC611 8-759-635-27 s IC M62352GP

IC613 8-759-926-52 s IC SN74HC257ANS
 IC614 8-759-242-76 s IC TC7W08F
 IC615 8-759-242-64 s IC TC4W53F
 IC616 8-759-387-75 s IC TC7W00F(TE12R)
 IC701 8-752-341-58 s IC CXD1217Q

IC702 8-759-242-64 s IC TC4W53F
 IC801 8-752-053-21 s IC CXA1211M
 IC802 8-752-053-21 s IC CXA1211M
 IC803 8-759-242-76 s IC TC7W08F
 IC804 8-759-278-95 s IC BA7606F

IC901 8-752-068-43 s IC CXA1645M

L101 1-410-369-11 s INDUCTOR CHIP 1uH
 L102 1-410-369-11 s INDUCTOR CHIP 1uH
 L103 1-410-369-11 s INDUCTOR CHIP 1uH
 L104 1-410-369-11 s INDUCTOR CHIP 1uH
 L105 1-424-653-11 s COIL, CHOKE 10uH

L106 1-424-653-11 s COIL, CHOKE 10uH
 L201 1-410-369-11 s INDUCTOR CHIP 1uH
 L301 1-410-369-11 s INDUCTOR CHIP 1uH
 L302 1-410-380-31 s INDUCTOR CHIP 8.2uH [for UP-2300P]
 L303 1-410-369-11 s INDUCTOR CHIP 1uH

L304 1-410-369-11 s INDUCTOR CHIP 1uH
 L305 1-410-369-11 s INDUCTOR CHIP 1uH
 L601 1-410-369-11 s INDUCTOR CHIP 1uH
 L602 1-410-656-11 s INDUCTOR CHIP 150uH
 L603 1-410-369-11 s INDUCTOR CHIP 1uH

L604 1-410-387-11 s INDUCTOR CHIP 33uH
 L701 1-410-369-11 s INDUCTOR CHIP 1uH
 L702 1-410-377-31 s INDUCTOR CHIP 4.7uH [for UP-2300P]
 L703 1-410-377-31 s INDUCTOR CHIP 4.7uH [for UP-2300P]
 L801 1-410-369-11 s INDUCTOR CHIP 1uH

L902 1-410-369-11 s INDUCTOR CHIP 1uH

(VA-181[FOR UP-2300/2300P])

Ref. No.
or Q'ty Part No. SP DescriptionLV301 1-411-191-21 s COIL, VARIABLE (D.A.T)
[for UP-2300P]

Q104 8-729-420-36 s TRANSISTOR XN2501 [for UP-2300P]

Q105 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q106 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q113 8-729-216-22 s TRANSISTOR 2SA1162

Q201 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q202 8-729-402-13 s TRANSISTOR XN1501

Q203 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q204 8-729-402-84 s TRANSISTOR XN4601

Q205 8-729-402-84 s TRANSISTOR XN4601

Q206 8-729-901-00 s TRANSISTOR DTC124EK

Q207 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q209 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q210 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q211 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q212 8-729-901-00 s TRANSISTOR DTC124EK

Q301 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
[for UP-2300P]

Q302 8-729-901-00 s TRANSISTOR DTC124EK

Q303 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q304 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q305 8-729-402-13 s TRANSISTOR XN1501

Q306 8-729-117-84 s TRANSISTOR 2SK160A-K26
[for UP-2300P]Q307 8-729-117-84 s TRANSISTOR 2SK160A-K26
[for UP-2300]

Q401 8-729-420-36 s TRANSISTOR XN2501

Q402 8-729-402-84 s TRANSISTOR XN4601

Q403 8-729-420-36 s TRANSISTOR XN2501

Q404 8-729-402-84 s TRANSISTOR XN4601

Q405 8-729-420-36 s TRANSISTOR XN2501

Q406 8-729-402-84 s TRANSISTOR XN4601

Q407 8-729-420-36 s TRANSISTOR XN2501

Q408 8-729-420-36 s TRANSISTOR XN2501

Q409 8-729-420-36 s TRANSISTOR XN2501

Q410 8-729-402-13 s TRANSISTOR XN1501

Q411 8-729-122-63 s TRANSISTOR 2SA1226

Q412 8-729-420-36 s TRANSISTOR XN2501

Q413 8-729-402-87 s TRANSISTOR XN2401

Q414 8-729-402-13 s TRANSISTOR XN1501

Q415 8-729-122-63 s TRANSISTOR 2SA1226

Q416 8-729-420-36 s TRANSISTOR XN2501

Q417 8-729-402-87 s TRANSISTOR XN2401

Q418 8-729-402-13 s TRANSISTOR XN1501

Q419 8-729-122-63 s TRANSISTOR 2SA1226

Q420 8-729-420-36 s TRANSISTOR XN2501

Q421 8-729-402-87 s TRANSISTOR XN2401

Q422 8-729-901-00 s TRANSISTOR DTC124EK

Q601 8-729-901-00 s TRANSISTOR DTC124EK

Q602 8-729-901-00 s TRANSISTOR DTC124EK

Q603 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q604 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q605 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q606 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q607 8-729-901-00 s TRANSISTOR DTC124EK

Q608 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q609 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q701 8-729-901-00 s TRANSISTOR DTC124EK

(VA-181[FOR UP-2300/2300P])

Ref. No.
or Q'ty Part No. SP DescriptionQ702 8-729-027-31 s TRANSISTOR DTA124EKA-T146
[for UP-2300P]Q703 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
[for UP-2300P]

Q704 8-729-901-00 s TRANSISTOR DTC124EK [for UP-2300P]

Q705 8-729-027-31 s TRANSISTOR DTA124EKA-T146
[for UP-2300]Q706 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
[for UP-2300]Q707 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
[for UP-2300P]Q708 8-729-120-28 s TRANSISTOR 2SC1623-L5L6
[for UP-2300P]

Q801 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q802 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q803 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q804 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q805 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q806 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q807 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q808 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q809 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q810 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q811 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q812 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q813 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q814 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q815 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q816 8-729-901-00 s TRANSISTOR DTC124EK

Q817 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

Q818 8-729-120-28 s TRANSISTOR 2SC1623-L5L6

R104 1-216-081-00 s METAL, CHIP 22K 5% 1/10W

R105 1-216-081-00 s METAL, CHIP 22K 5% 1/10W

R110 1-216-081-00 s METAL, CHIP 22K 5% 1/10W

R115 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

R116 1-216-085-00 s METAL, CHIP 33K 5% 1/10W

R121 1-216-081-00 s METAL, CHIP 22K 5% 1/10W

R126 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

R143 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
[for UP-2300P]

R144 1-216-097-91 s METAL 100K 5% 1/10W [for UP-2300P]

R145 1-216-059-00 s METAL, CHIP 2.7K 5% 1/10W

R146 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R147 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

R148 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W

R149 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R150 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R152 1-216-295-00 s METAL, CHIP 0 5% 1/10W

R153 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
[for UP-2300]R154 1-216-295-00 s METAL, CHIP 0 5% 1/10W
[for UP-2300P]

R201 1-216-081-00 s METAL, CHIP 22K 5% 1/10W

R202 1-216-025-00 s METAL, CHIP 100 5% 1/10W

R203 1-216-083-00 s METAL, CHIP 27K 5% 1/10W

R204 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

(VA-181[FOR UP-2300/2300P])

Ref. No.
or Q'ty Part No. SP Description

R205 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R206 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R207 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R208 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R209 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

R210 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R211 1-216-039-00 s METAL, CHIP 390 5% 1/10W
 R212 1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W
 R213 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R214 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

R215 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R216 1-216-017-91 s METAL 47 5% 1/10W
 R217 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R218 1-216-029-00 s METAL, CHIP 150 5% 1/10W
 R219 1-216-029-00 s METAL, CHIP 150 5% 1/10W

R220 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R221 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R222 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R223 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
 R224 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R225 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R226 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R227 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R228 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
 R229 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W

R230 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R231 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R232 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R233 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R234 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R237 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R240 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R241 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R242 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R243 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R244 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R245 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R246 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R247 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R301 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R302 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R303 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R304 1-216-295-00 s METAL, CHIP 0 5% 1/10W
 [for UP-2300P]
 R305 1-216-295-00 s METAL, CHIP 0 5% 1/10W
 [for UP-2300P]
 R306 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 [for UP-2300P]

R307 1-216-039-00 s METAL, CHIP 390 5% 1/10W
 [for UP-2300P]
 R308 1-216-039-00 s METAL, CHIP 390 5% 1/10W
 [for UP-2300P]

R309 1-216-089-91 s METAL 47K 5% 1/10W
 R310 1-216-133-00 s METAL, CHIP 3.3M 5% 1/10W
 R311 1-216-081-00 s METAL, CHIP 22K 5% 1/10W

R312 1-216-031-00 s METAL, CHIP 180 5% 1/10W
 R313 1-216-039-00 s METAL, CHIP 390 5% 1/10W
 R314 1-216-083-00 s METAL, CHIP 27K 5% 1/10W
 R315 1-216-083-00 s METAL, CHIP 27K 5% 1/10W
 R316 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

(VA-181[FOR UP-2300/2300P])

Ref. No.
or Q'ty Part No. SP Description

R317 1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W
 R318 1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W
 R319 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R320 1-216-133-00 s METAL, CHIP 3.3M 5% 1/10W
 R321 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W

R322 1-216-045-00 s METAL, CHIP 680 5% 1/10W
 R323 1-216-029-00 s METAL, CHIP 150 5% 1/10W
 R324 1-216-017-91 s METAL 47 5% 1/10W
 R325 1-216-041-00 s METAL, CHIP 470 5% 1/10W
 R326 1-216-041-00 s METAL, CHIP 470 5% 1/10W

R327 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R328 1-216-041-00 s METAL, CHIP 470 5% 1/10W
 R329 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R330 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R331 1-216-025-00 s METAL, CHIP 100 5% 1/10W

R332 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R333 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R334 1-216-041-00 s METAL, CHIP 470 5% 1/10W
 R335 1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W
 R336 1-216-025-00 s METAL, CHIP 100 5% 1/10W

R337 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R338 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R339 1-216-079-00 s METAL, CHIP 18K 5% 1/10W
 R340 1-216-089-91 s METAL 47K 5% 1/10W
 R341 1-216-097-91 s METAL 100K 5% 1/10W

R342 1-216-059-00 s METAL, CHIP 2.7K 5% 1/10W
 R343 1-216-013-00 s METAL, CHIP 33 5% 1/10W
 R344 1-216-063-91 s METAL 3.9K 5% 1/10W
 R345 1-216-097-91 s METAL 100K 5% 1/10W
 R346 1-216-013-00 s METAL, CHIP 33 5% 1/10W

R347 1-216-097-91 s METAL 100K 5% 1/10W
 R348 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R349 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R350 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R351 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 [for UP-2300P]

R352 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 [for UP-2300]

R401 1-216-013-00 s METAL, CHIP 33 5% 1/10W
 R402 1-216-013-00 s METAL, CHIP 33 5% 1/10W
 R403 1-216-013-00 s METAL, CHIP 33 5% 1/10W
 R404 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W

R405 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R406 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R407 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R408 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R409 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R410 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R411 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R412 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R413 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R414 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R415 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R416 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R417 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R418 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R419 1-216-081-00 s METAL, CHIP 22K 5% 1/10W

R420 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R421 1-216-077-00 s METAL, CHIP 15K 5% 1/10W

(VA-181[FOR UP-2300/2300P])

Ref. No.
or Q'ty Part No. SP Description

R422 1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W
 R423 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 R424 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R425 1-216-077-00 s METAL, CHIP 15K 5% 1/10W
 R426 1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W

R427 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 R428 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R429 1-216-077-00 s METAL, CHIP 15K 5% 1/10W
 R430 1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W
 R431 1-216-025-00 s METAL, CHIP 100 5% 1/10W

R432 1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W
 R433 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R434 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R435 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R436 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W

R437 1-216-309-00 s METAL 5.6 5% 1/10W
 R438 1-216-309-00 s METAL 5.6 5% 1/10W
 R439 1-216-023-00 s METAL, CHIP 82 5% 1/10W
 R441 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R442 1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W

R443 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R444 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R445 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R446 1-216-309-00 s METAL 5.6 5% 1/10W
 R447 1-216-309-00 s METAL 5.6 5% 1/10W

R448 1-216-023-00 s METAL, CHIP 82 5% 1/10W
 R450 1-216-025-00 s METAL, CHIP 100 5% 1/10W
 R451 1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W
 R452 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R453 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R454 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R455 1-216-309-00 s METAL 5.6 5% 1/10W
 R456 1-216-309-00 s METAL 5.6 5% 1/10W
 R457 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R458 1-216-023-00 s METAL, CHIP 82 5% 1/10W

R460 1-216-295-00 s METAL, CHIP 0 5% 1/10W
 R461 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R462 1-216-089-91 s METAL 47K 5% 1/10W
 R463 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W
 [for UP-2300]

R463 1-216-079-00 s METAL, CHIP 18K 5% 1/10W
 [for UP-2300P]

R464 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R465 1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W
 R467 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R468 1-216-043-00 s METAL, CHIP 560 5% 1/10W
 R469 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R471 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R601 1-216-059-00 s METAL, CHIP 2.7K 5% 1/10W
 R602 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W
 R603 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R604 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R605 1-216-085-00 s METAL, CHIP 33K 5% 1/10W
 R606 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R607 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R608 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R609 1-216-091-00 s METAL, CHIP 56K 5% 1/10W

R610 1-216-077-00 s METAL, CHIP 15K 5% 1/10W
 R611 1-216-085-00 s METAL, CHIP 33K 5% 1/10W

(VA-181[FOR UP-2300/2300P])

Ref. No.
or Q'ty Part No. SP Description

R612 1-216-043-00 s METAL, CHIP 560 5% 1/10W
 R613 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R614 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R615 1-216-101-00 s METAL, CHIP 150K 5% 1/10W
 R616 1-216-079-00 s METAL, CHIP 18K 5% 1/10W

R617 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 R618 1-216-097-91 s METAL 100K 5% 1/10W
 R619 1-216-099-00 s METAL, CHIP 120K 5% 1/10W
 R620 1-216-075-00 s METAL, CHIP 12K 5% 1/10W
 R621 1-216-113-00 s METAL, CHIP 470K 5% 1/10W

R622 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 R623 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R624 1-216-079-00 s METAL, CHIP 18K 5% 1/10W
 R625 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 R626 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R627 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R628 1-216-077-00 s METAL, CHIP 15K 5% 1/10W
 R629 1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W
 R630 1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W
 R631 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W

R632 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R633 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 R634 1-216-013-00 s METAL, CHIP 33 5% 1/10W
 R635 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R636 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R637 1-216-013-00 s METAL, CHIP 33 5% 1/10W
 R638 1-216-295-00 s METAL, CHIP 0 5% 1/10W
 R639 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R640 1-216-013-00 s METAL, CHIP 33 5% 1/10W
 R641 1-216-025-00 s METAL, CHIP 100 5% 1/10W

R642 1-216-021-00 s METAL, CHIP 68 5% 1/10W
 R643 1-216-029-00 s METAL, CHIP 150 5% 1/10W
 R644 1-216-027-00 s METAL, CHIP 120 5% 1/10W
 R646 1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W
 R649 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R650 1-216-041-00 s METAL, CHIP 470 5% 1/10W
 R651 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R652 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R653 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R654 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

R655 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R656 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R657 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R658 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R659 1-216-049-00 s METAL, CHIP 1K 5% 1/10W

R660 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R661 1-216-097-91 s METAL 100K 5% 1/10W
 R662 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R663 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 R664 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W

R665 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R666 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R667 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R668 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R669 1-216-073-00 s METAL, CHIP 10K 5% 1/10W

R672 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
 R701 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W
 R702 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 [for UP-2300P]

(VA-181[FOR UP-2300/2300P])

Ref. No. or Q'ty	Part No.	SP Description
R703	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W [for UP-2300P]
R704	1-216-073-00	s METAL, CHIP 10K 5% 1/10W [for UP-2300P]
R706	1-216-049-00	s METAL, CHIP 1K 5% 1/10W [for UP-2300P]
R707	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W [for UP-2300]
R708	1-216-073-00	s METAL, CHIP 10K 5% 1/10W [for UP-2300]
R709	1-216-049-00	s METAL, CHIP 1K 5% 1/10W [for UP-2300]
R709	1-216-295-00	s METAL, CHIP 0 5% 1/10W [for UP-2300P]
R710	1-216-069-00	s METAL, CHIP 6.8K 5% 1/10W [for UP-2300P]
R711	1-216-295-00	s METAL, CHIP 0 5% 1/10W [for UP-2300]
R711	1-216-049-00	s METAL, CHIP 1K 5% 1/10W [for UP-2300P]
R712	1-216-073-00	s METAL, CHIP 10K 5% 1/10W [for UP-2300P]
R713	1-216-097-91	s METAL 100K 5% 1/10W [for UP-2300P]
R714	1-216-065-00	s METAL, CHIP 4.7K 5% 1/10W [for UP-2300P]
R715	1-216-073-00	s METAL, CHIP 10K 5% 1/10W [for UP-2300P]
R716	1-216-105-91	s METAL, CHIP 220K 5% 1/10W [for UP-2300P]
R717	1-216-073-00	s METAL, CHIP 10K 5% 1/10W [for UP-2300P]
R718	1-216-295-00	s METAL, CHIP 0 5% 1/10W [for UP-2300]
R801	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R802	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R803	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R804	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R805	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R806	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R807	1-216-045-00	s METAL, CHIP 680 5% 1/10W
R808	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R809	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R810	1-216-035-00	s METAL, CHIP 270 5% 1/10W
R811	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R812	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R813	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R814	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R815	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R816	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R817	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R818	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R819	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R820	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R821	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R822	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R823	1-216-035-00	s METAL, CHIP 270 5% 1/10W
R824	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R825	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R826	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R827	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R828	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W

(VA-181[FOR UP-2300/2300P])

Ref. No. or Q'ty	Part No.	SP Description
R829	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R830	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R831	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R832	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R833	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R834	1-216-085-00	s METAL, CHIP 33K 5% 1/10W
R835	1-216-071-00	s METAL, CHIP 8.2K 5% 1/10W
R836	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R837	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R838	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R839	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R840	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R841	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R842	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R843	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R844	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R845	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R846	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R849	1-216-055-00	s METAL, CHIP 1.8K 5% 1/10W
R850	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R851	1-216-081-00	s METAL, CHIP 22K 5% 1/10W
R852	1-216-053-00	s METAL, CHIP 1.5K 5% 1/10W
R853	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R901	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R902	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R903	1-216-089-91	s METAL 47K 5% 1/10W
R904	1-216-077-00	s METAL, CHIP 15K 5% 1/10W
R905	1-216-049-00	s METAL, CHIP 1K 5% 1/10W
R906	1-216-063-91	s METAL 3.9K 5% 1/10W [for UP-2300]
R906	1-216-295-00	s METAL, CHIP 0 5% 1/10W [for UP-2300P]
R907	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R908	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R910	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R911	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R912	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R913	1-216-029-00	s METAL, CHIP 150 5% 1/10W
R976	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W [for UP-2300]
R977	1-216-063-91	s METAL 3.9K 5% 1/10W [for UP-2300]
R978	1-216-081-00	s METAL, CHIP 22K 5% 1/10W [for UP-2300]
R979	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R980	1-216-309-00	s METAL 5.6 5% 1/10W
R981	1-216-309-00	s METAL 5.6 5% 1/10W
R982	1-216-057-00	s METAL, CHIP 2.2K 5% 1/10W
R983	1-216-027-00	s METAL, CHIP 120 5% 1/10W
RV201	1-238-856-11	s RES, ADJ, METAL 10K
RV301	1-238-858-11	s RES, ADJ, METAL 47K [for UP-2300P]
RV302	1-238-852-11	s RES, ADJ, CERMET 470 [for UP-2300P]
RV303	1-238-855-11	s RES, ADJ, METAL 4.7K
RV304	1-238-853-11	s RES, ADJ, METAL 1K
RV305	1-238-853-11	s RES, ADJ, METAL 1K
RV306	1-238-855-11	s RES, ADJ, METAL 4.7K
RV307	1-238-855-11	s RES, ADJ, METAL 4.7K
RV401	1-238-855-11	s RES, ADJ, METAL 4.7K
RV601	1-238-854-11	s RES, ADJ, METAL 2.2K
RV801	1-238-852-11	s RES, ADJ, CERMET 470

(VA-181[FOR UP-2300/2300P])

Ref. No.
or Q'ty Part No. SP Description

RV803 1-238-852-11 s RES, ADJ, CERMET 470
X301 1-567-504-11 s CRYSTAL 4.433619MHz [for UP-2300P]
X302 1-567-505-11 s CRYSTAL 3.579545MHz [for UP-2300]
X303 1-760-593-21 s VIBRATOR, CERAMIC 50.0KHz
X601 1-760-593-21 s VIBRATOR, CERAMIC 50.0KHz
X602 1-527-722-00 s OSCILLATOR, CRYSTAL 14.31818MHz
[for UP-2300]

X603 1-579-057-11 s VIBRATOR, CRYSTAL [for UP-2300P]
X701 1-579-780-21 s VIBRATOR, CRYSTAL 17.734475MHz
[for UP-2300P]
X702 1-767-032-11 s CRYSTAL, 14.1875MHz [for UP-2300P]
X703 1-579-738-21 s VIBRATOR, CRYSTAL 14.318182MHz
[for UP-2300]

FRAME

Ref. No.
or Q'ty Part No. SP Description

1pc △ 1-468-250-12 s SWITCHIN REGULATOR
△ 1-576-232-41 s FUSE 5A 250V
1pc 1-500-473-11 s HEAD, THERMAL (LV6102)
2pcs 1-541-684-51 s MOTOR, DC
1pc 1-698-555-21 s MOTOR,STEPPING(PM42S-048-SNA6)
1pc 1-692-960-11 s SWITCH, PUSH (1 KEY)

1pc 1-763-007-11 s FAN, DC
1pc 1-782-724-11 s WIRE, FLAT (15-CORE)
1pc 1-782-725-11 s WIRE, FLAT (22-CORE)
1pc 1-782-726-11 s WIRE, FLAT (18-CORE)
1pc 1-782-727-11 s WIRE, FLAT (14-CORE)

1pc 1-782-728-11 s WIRE, FLAT (9-CORE)
1pc 1-782-733-11 s WIRE, FLAT (30-CORE)
1pc 1-782-734-11 s WIRE, FLAT (14-CORE)
1pc 1-782-735-11 s WIRE, FLAT (22-CORE)
1pc 1-782-736-11 s WIRE, FLAT (12-CORE)

1pc 1-782-737-11 s WIRE, FLAT (16-CORE)
[for UP-2800/2800P/2850P/2900MD/2950MD]
1pc 1-782-738-11 s WIRE, FLAT (21-CORE)
1pc 1-782-739-11 s WIRE, FLAT (19-CORE)
1pc 1-782-907-11 s CABLE, FLAT (16-CORE)
1pc 1-782-908-11 s CABLE, FLAT (22-CORE)

1pc 1-801-886-11 s LCD MODULE
[for UP-2800/2800P/2850P/2900MD/2950MD]

TO CN001/PRT-11
1pc 1-562-655-11 o SOCKET, CONNECTOR 13P
1pc 1-562-643-11 o CONTACT, FEMALE
TO CN002/SWITCHING REGULATOR
1pc 1-562-655-11 o SOCKET, CONNECTOR 13P
1pc 1-562-643-11 o CONTACT, FEMALE
TO CN003/SWITCHING REGULATOR
1pc 1-562-650-11 o SOCKET, CONNECTOR 8P
1pc 1-562-643-11 o CONTACT, FEMALE
TO CN004/SWITCHING REGULATOR
1pc 1-562-647-11 o SOCKET, CONNECTOR 5P
1pc 1-562-643-11 o CONTACT, FEMALE

(FRAME)

Ref. No.
or Q'ty Part No. SP Description

TO CN102/VA-181
1pc 1-562-650-11 o SOCKET, CONNECTOR 8P
1pc 1-562-643-11 o CONTACT, FEMALE
TO CN2001/FMY-21
1pc 1-562-647-11 o SOCKET, CONNECTOR 5P
1pc 1-562-643-11 o CONTACT, FEMALE

SUPPLIED ACCESSORIES

Ref. No.
or Q'ty Part No. SP Description

1pc A-8278-738-A s STD TRAY ASSY
1pc △ 1-534-827-14 s CORD, POWER[For UP-2800/2300(UC)]
1pc △ 1-551-631-22 s CORD, POWER[For CE]
1pc △ 1-559-945-11 s CORD, POWER
[For UP-2900MD/2950MD(UC)]
1pc △ 1-575-181-11 s CORD, POWER[For J]

1pc △ 1-750-686-11 s CONNECTOR, CONVERSION(3P-2P)
[For J]

1pc 3-609-528-01 o TRAY, PAPER EJECT
1pc 3-860-608-01 s MANUAL, INSTRUCTION[For J]
1pc 3-860-608-11 s MANUAL, INSTRUCTION
[For UP-2800/2300(UC)]

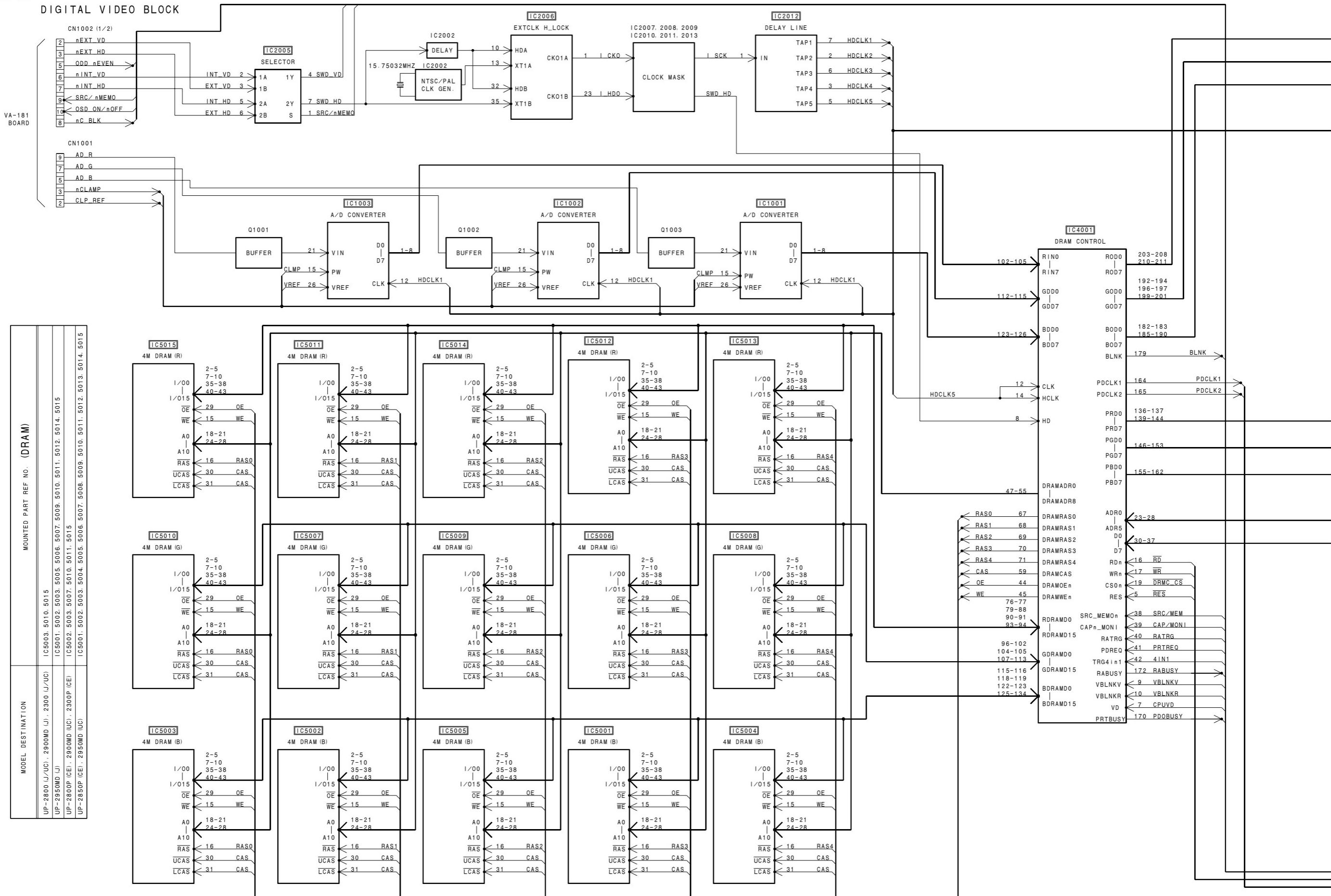
1pc 3-860-608-21 s MANUAL, INSTRUCTION
[For UP-2800P/2850P/2300P]
1pc 3-860-608-31 s MANUAL, INSTRUCTION
[For UP-2900MD/2950MD(UC)]

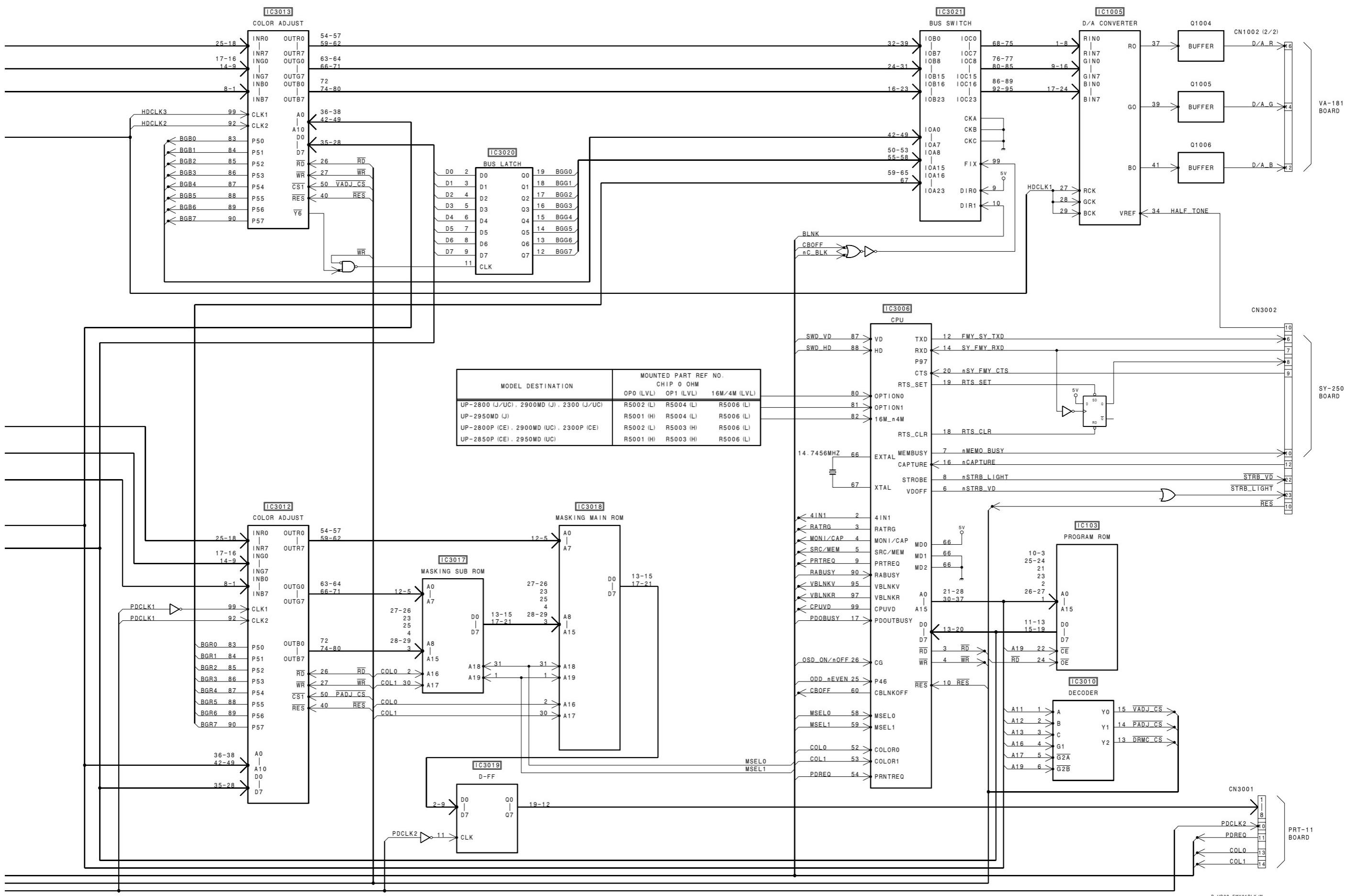
SECTION 9

FMY-21 FMY-21

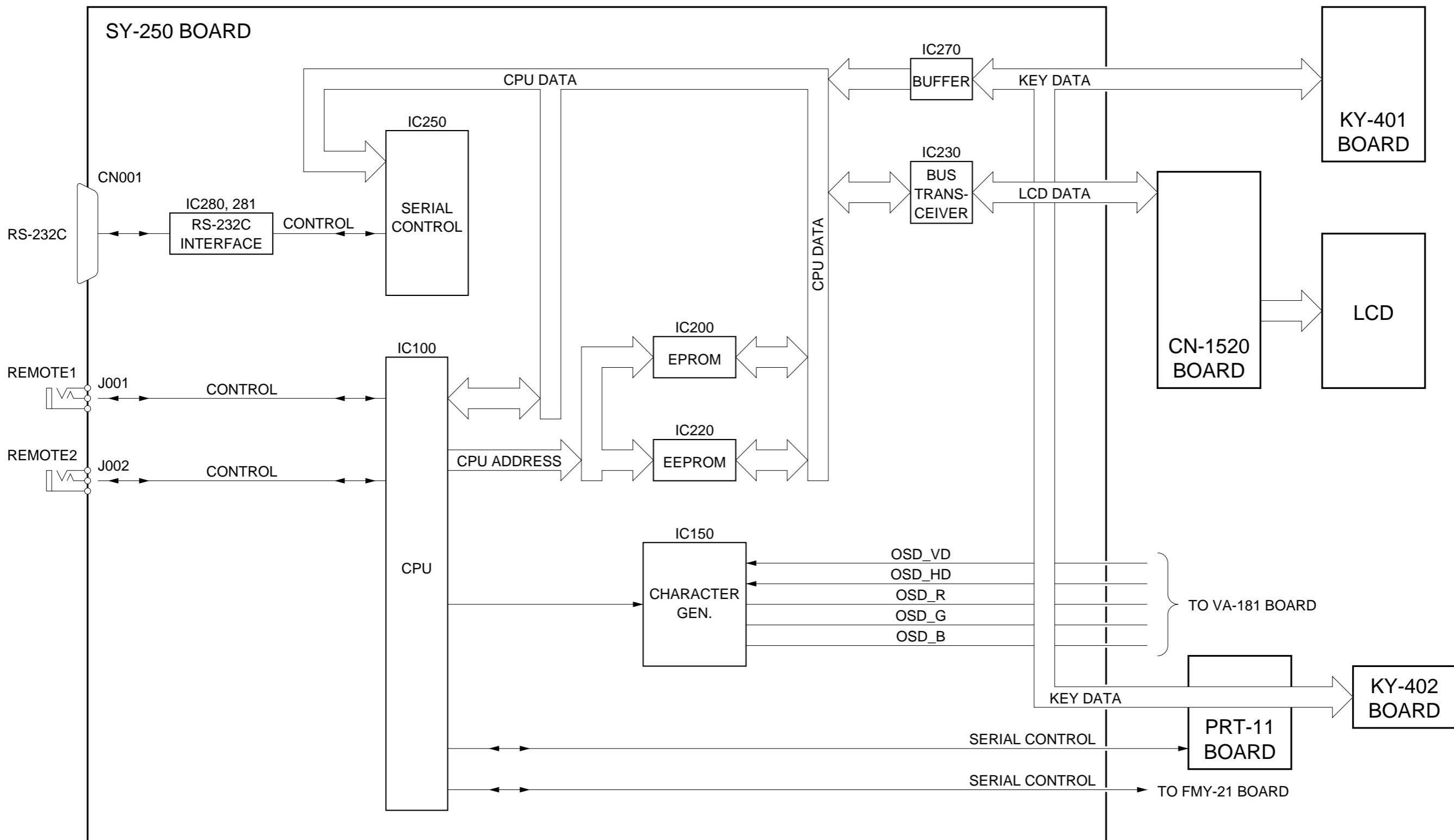
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FMY-21

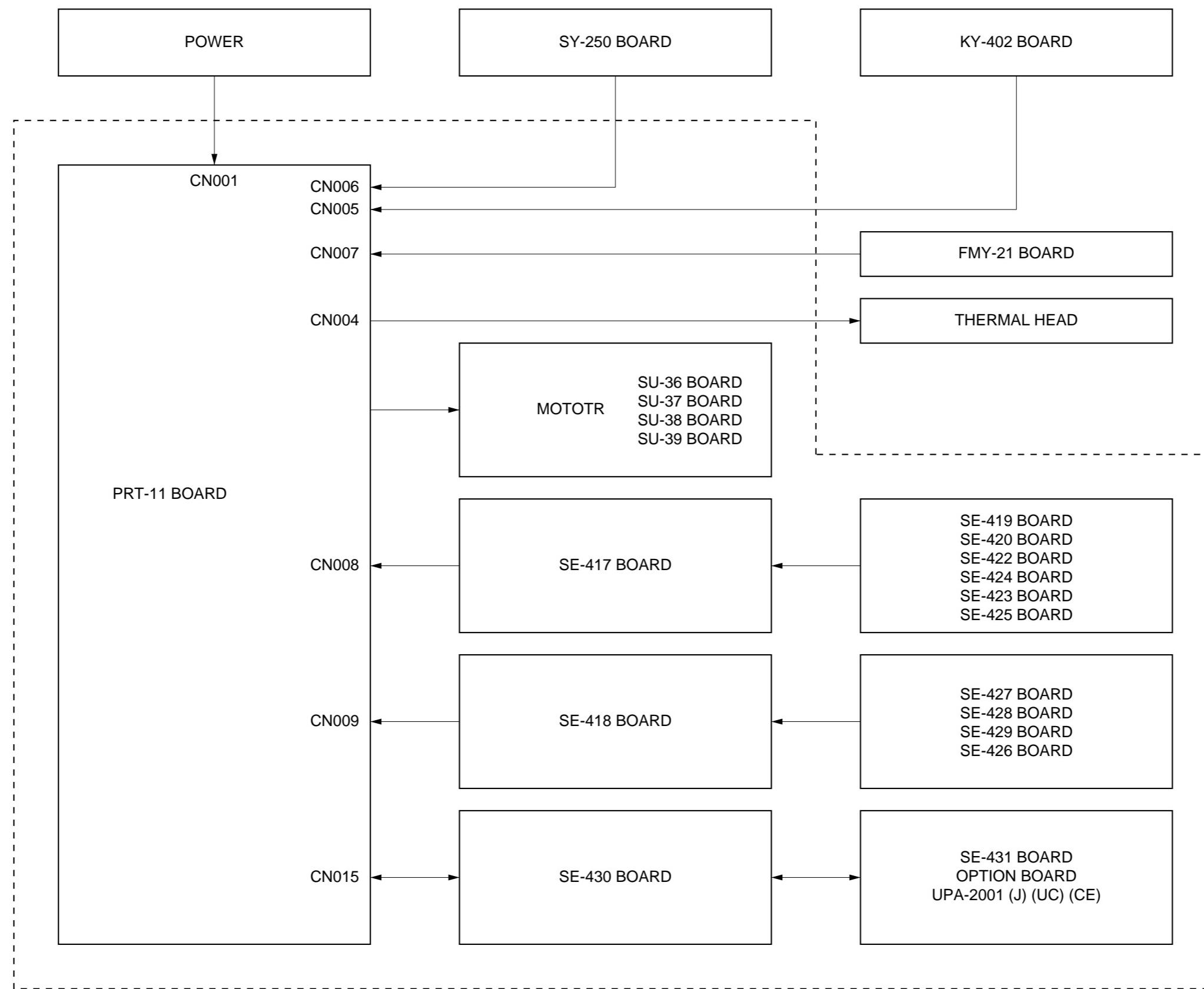




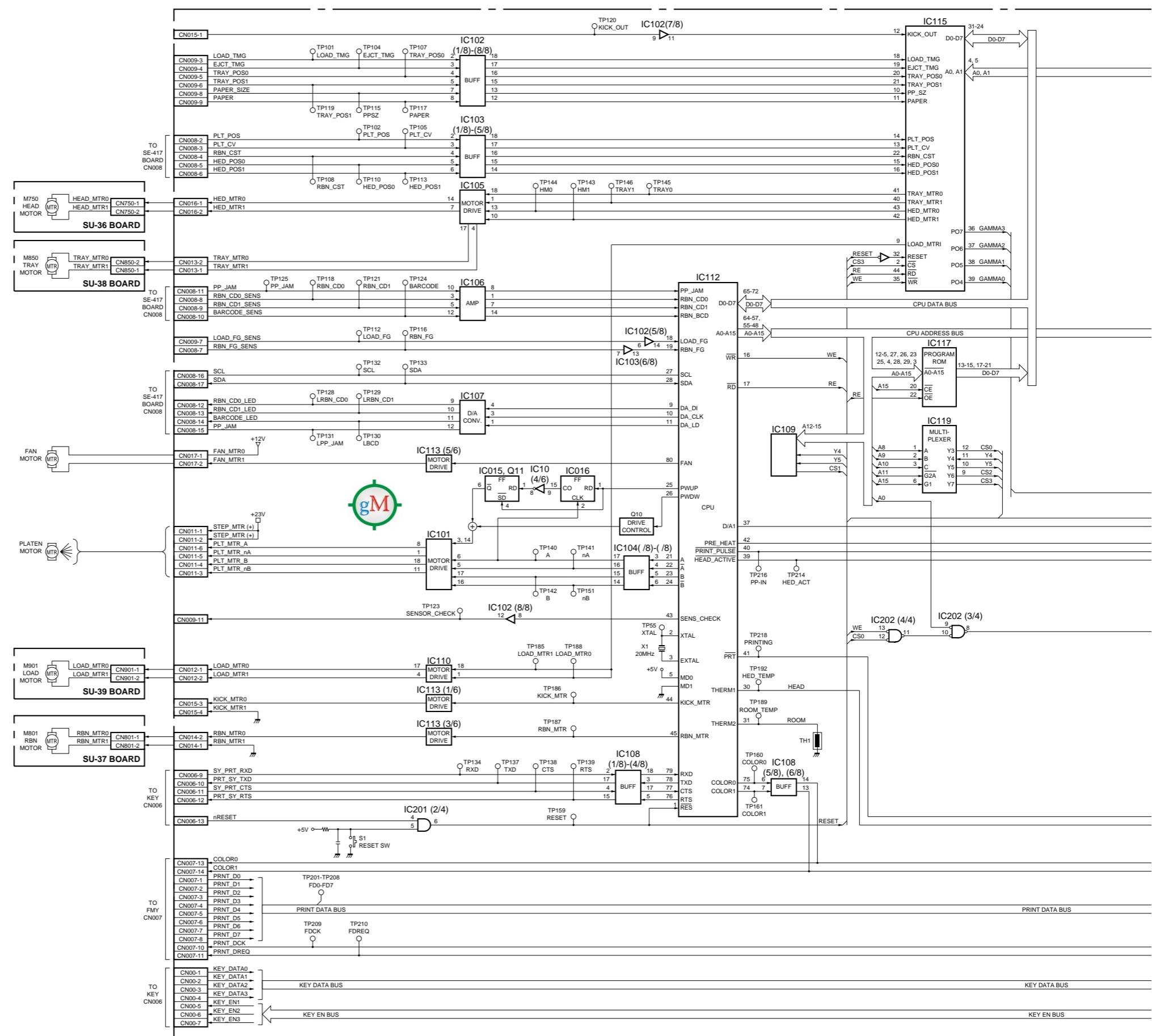
SY-250



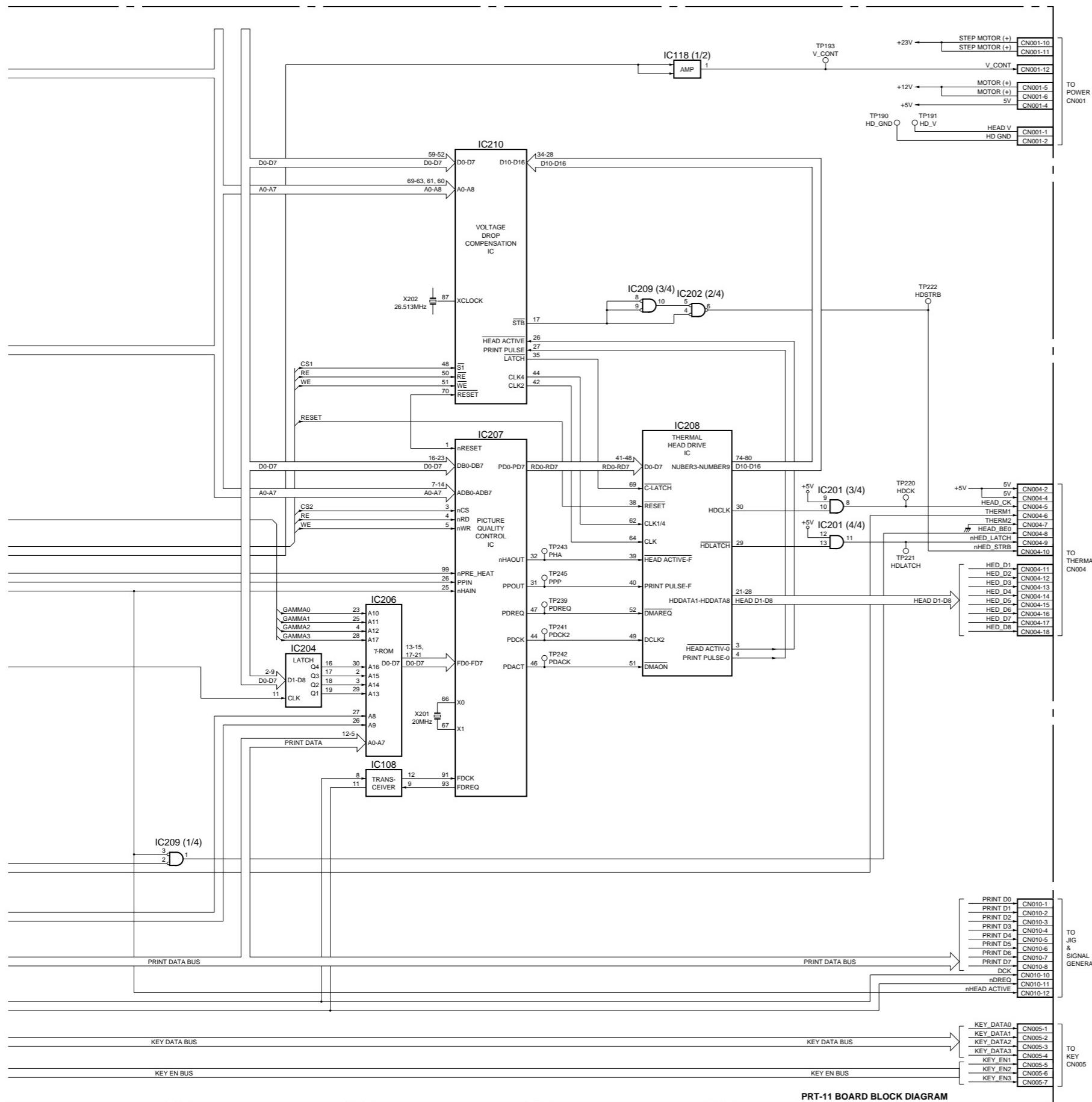
PRT-11 (1)



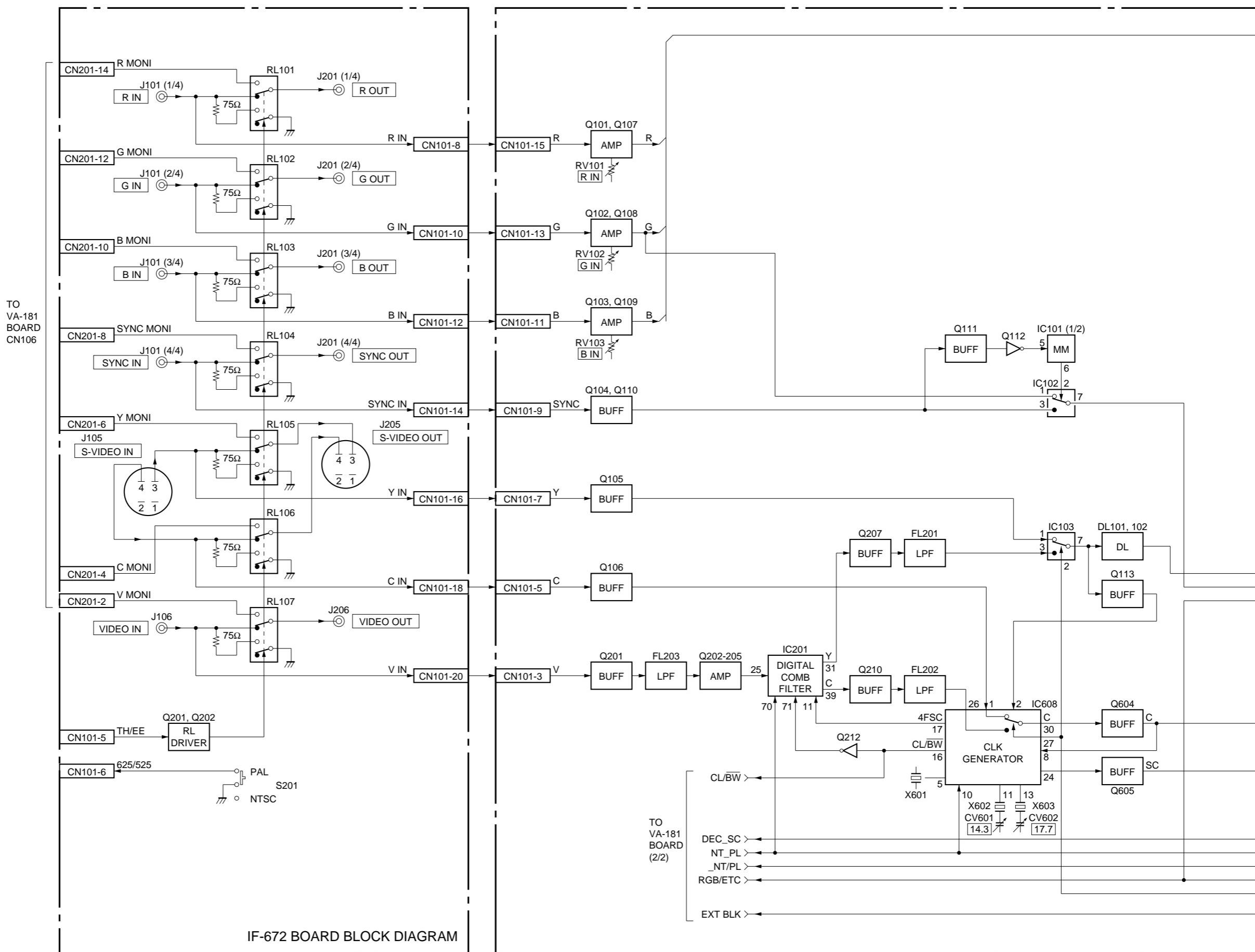
PRT-11 (2)

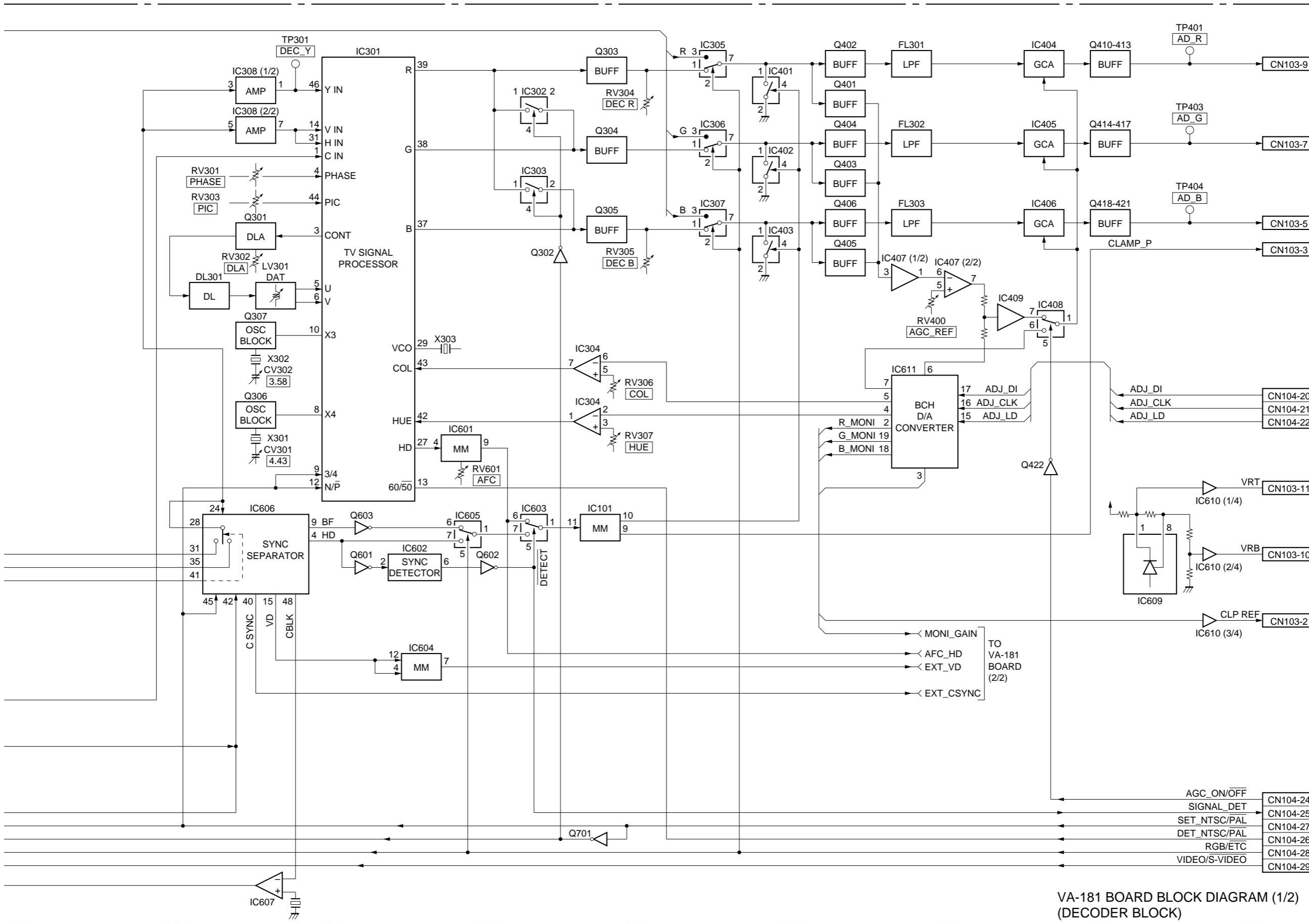


PRT-11 (2)

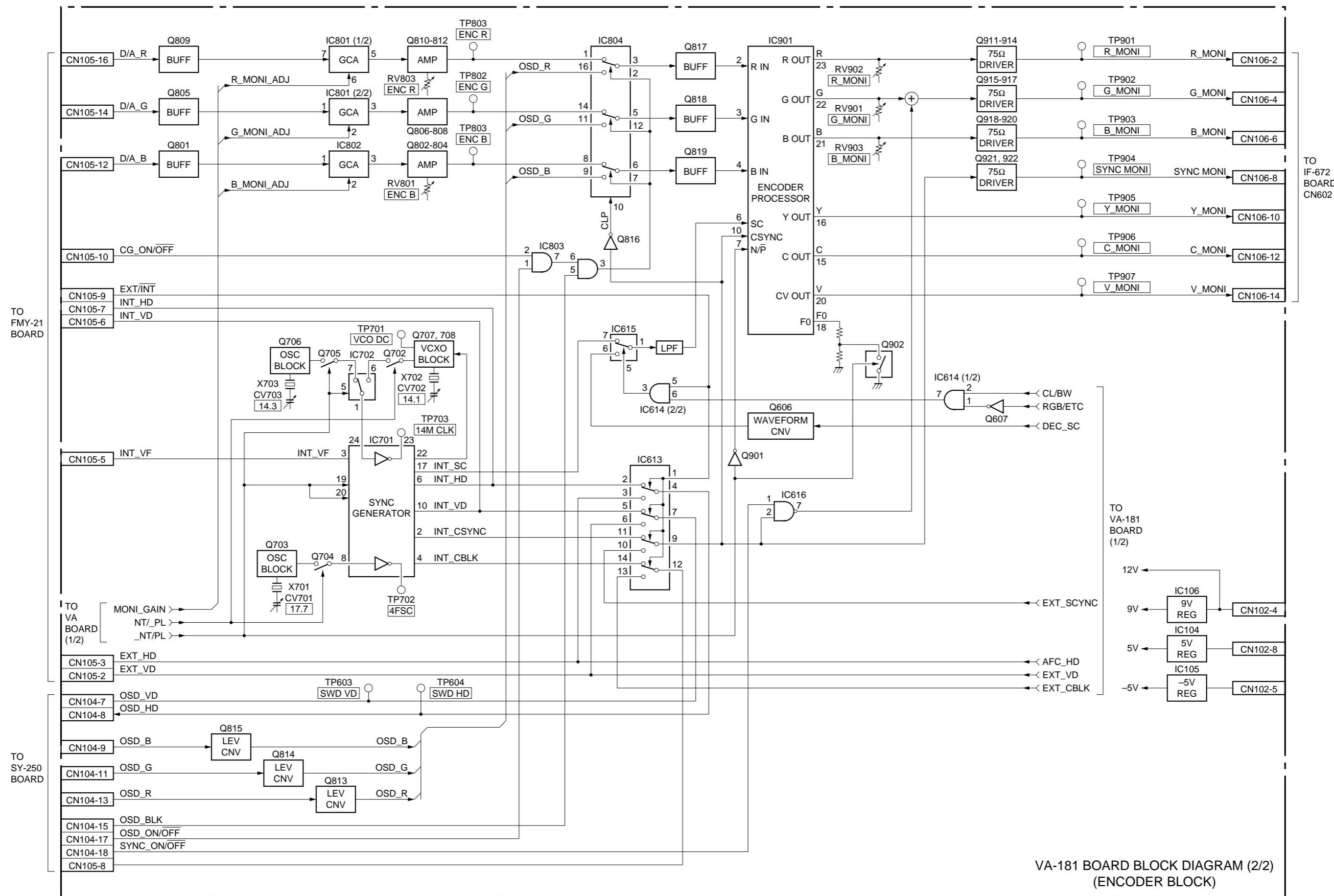


VA-181 (1/2)





VA-181 (2/2)

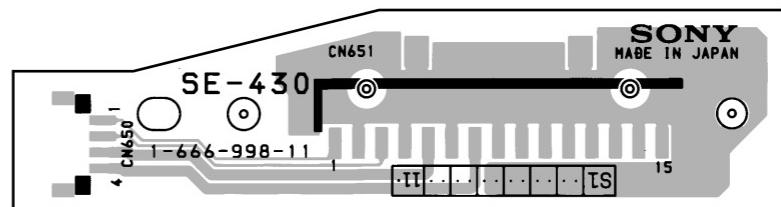


SECTION 10

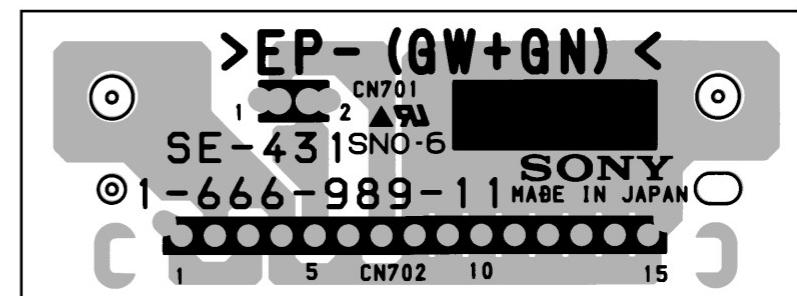
PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note: The components identified by mark \triangle are critical for safety. Replace only with part number specified.

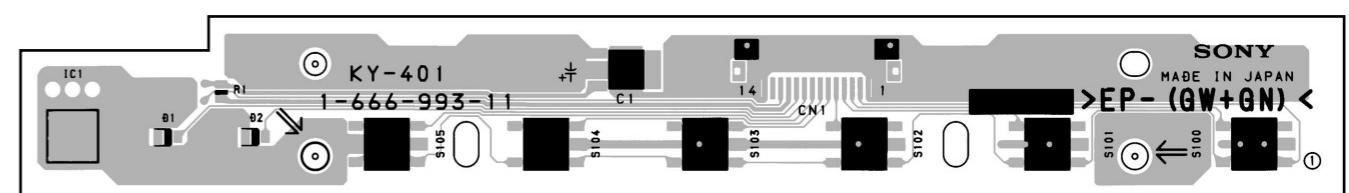
Note: Les composants identifiés par une marque \triangle sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.



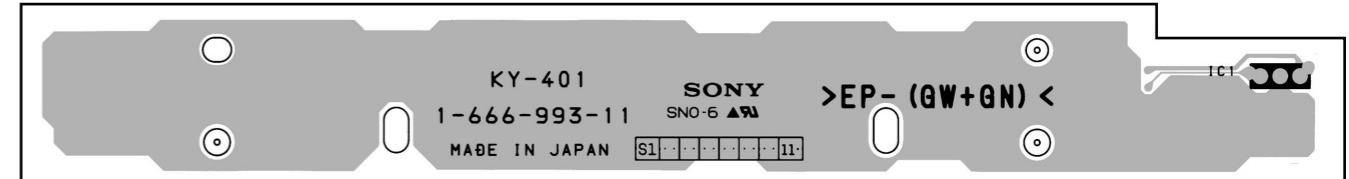
SE-430 A SIDE
1-666-998-11



SE-431 A SIDE
1-666-989-11

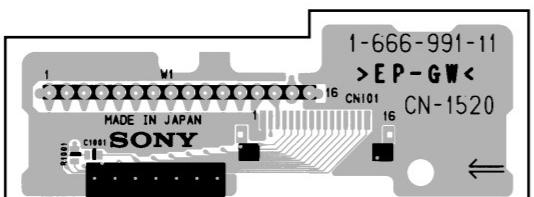


KY-401 A SIDE
1-666-993-11



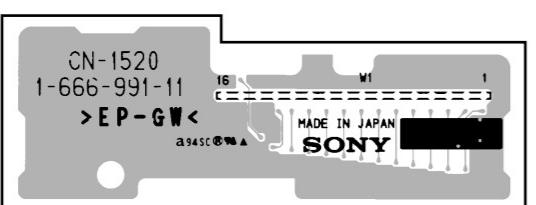
KY-401 B SIDE
1-666-993-11

(Except UP-2300/2300P)



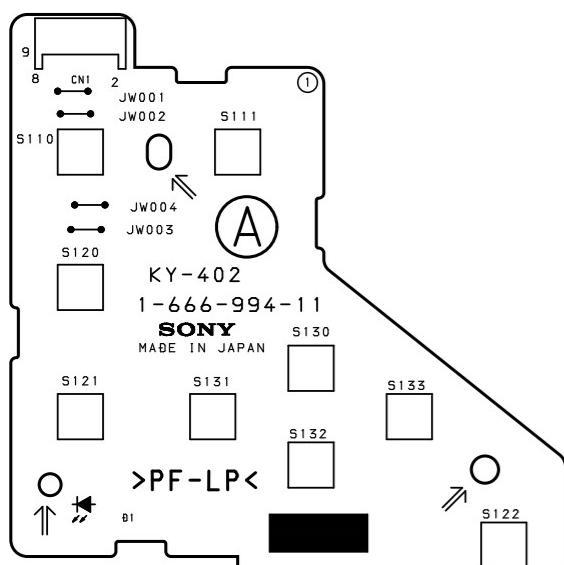
CN-1520 A SIDE

1-666-991-11



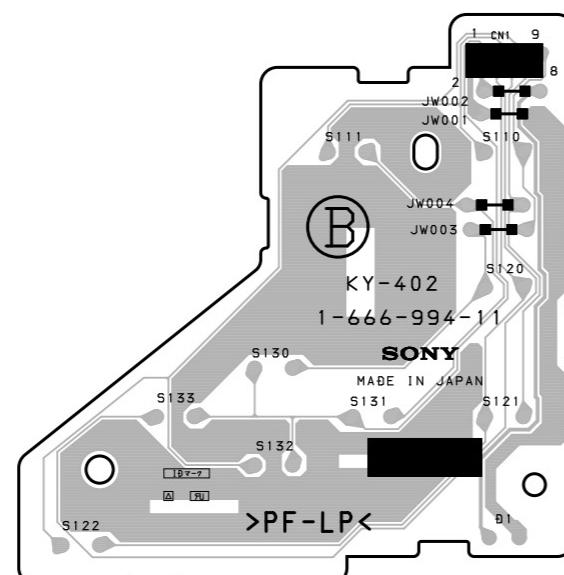
CN-1520 B SIDE

1-666-991-11



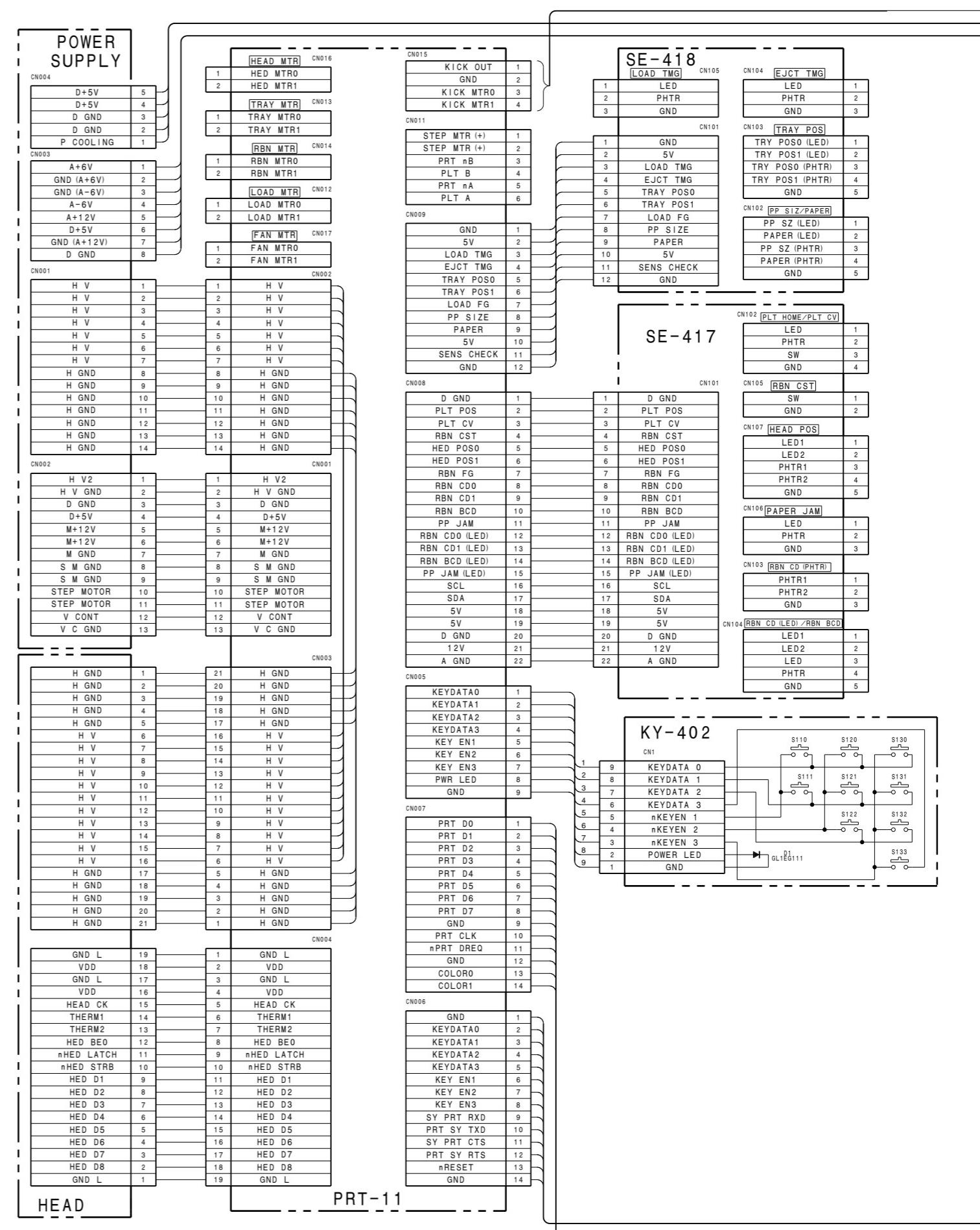
KY-402 A SIDE

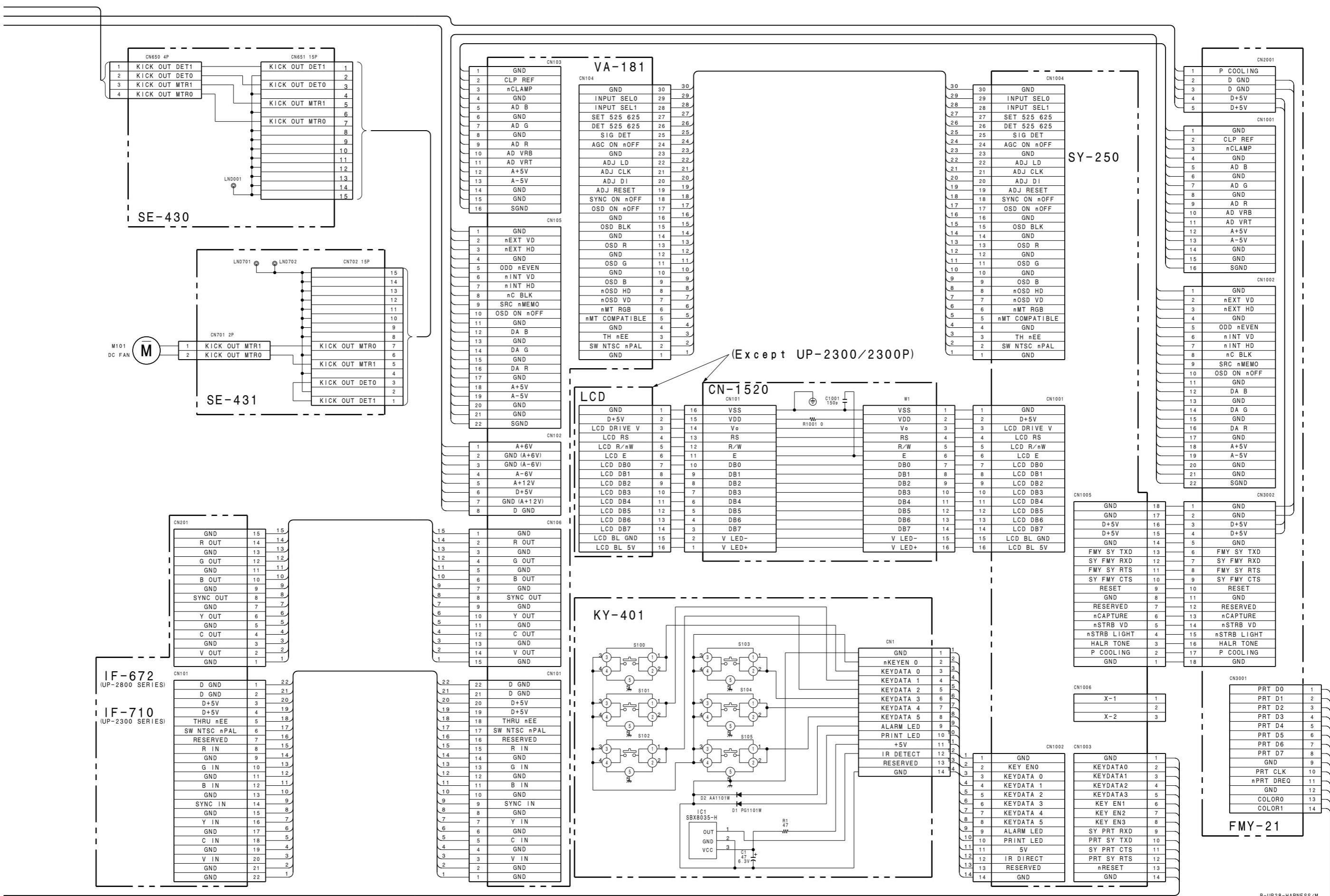
1-666-994-11



KY-402 B SIDE

1-666-994-11





FMY-11

CN1001
CN1002
CN2001
CN3001
CN3002
CNI103

```

IC103
IC1001
IC1002
IC1003
IC1004
IC1005
IC2001
* IC2002
* IC2003
* IC2004
* IC2005
* IC2006
* IC2007
* IC2008
* IC2009
* IC2010
* IC2011
* IC2012
* IC2013
* IC2014
* IC3002
* IC3003
* IC3005
* IC3006
* IC3008
* IC3010
* IC3011
* IC3012
* IC3013
* IC3017
* IC3018
* IC3019
* IC3020
* IC3021
* IC4001
* IC5001
* IC5002
* IC5003
* IC5004
* IC5005
* IC5006
* IC5007
* IC5008
* IC5009
* IC5010
* IC5011
* IC5012
* IC5013
* IC5014
* IC5015

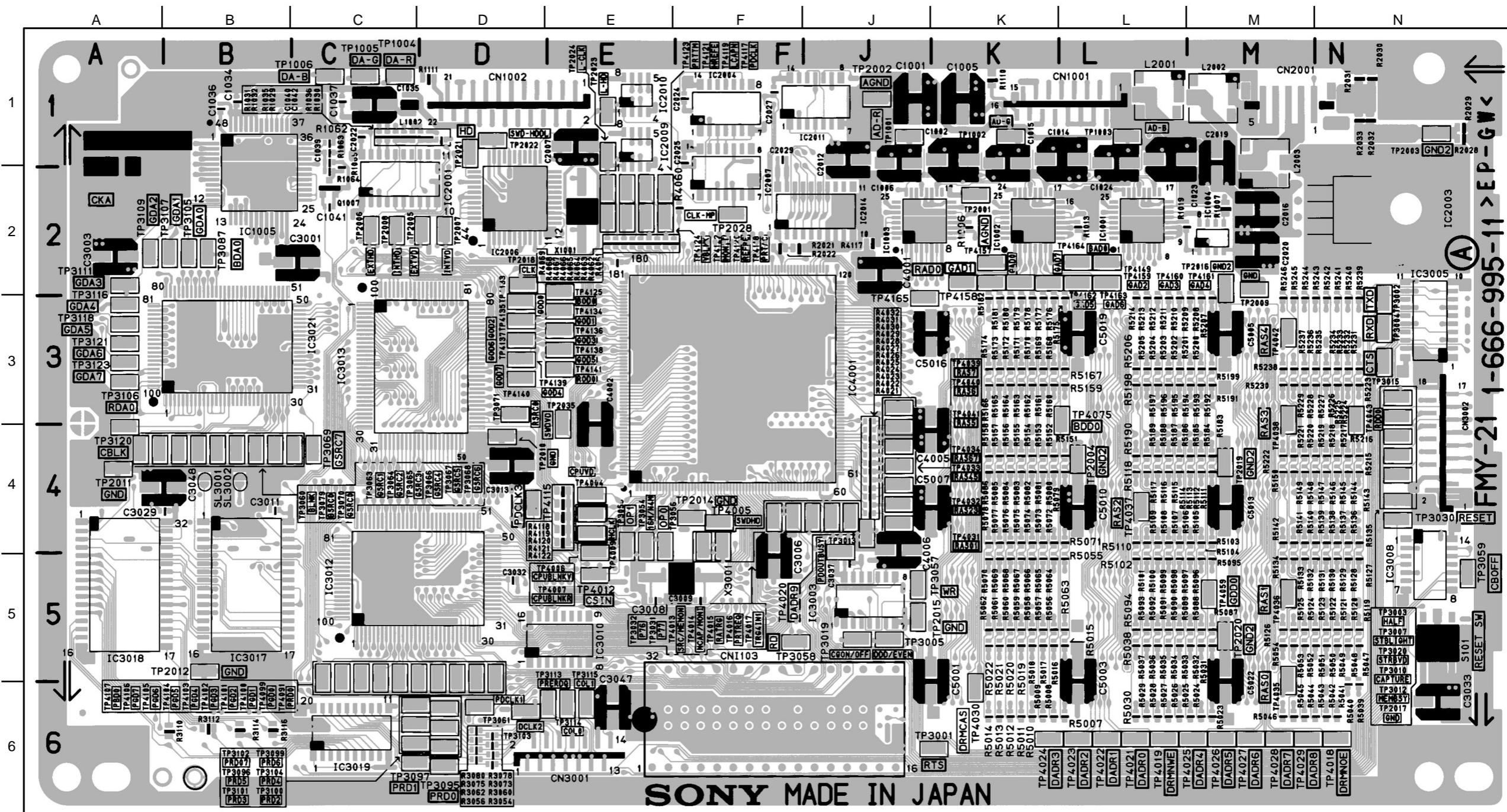
* Q1001
* Q1002
* Q1003
* Q1004
* Q1005
* Q1006
Q1007

S101

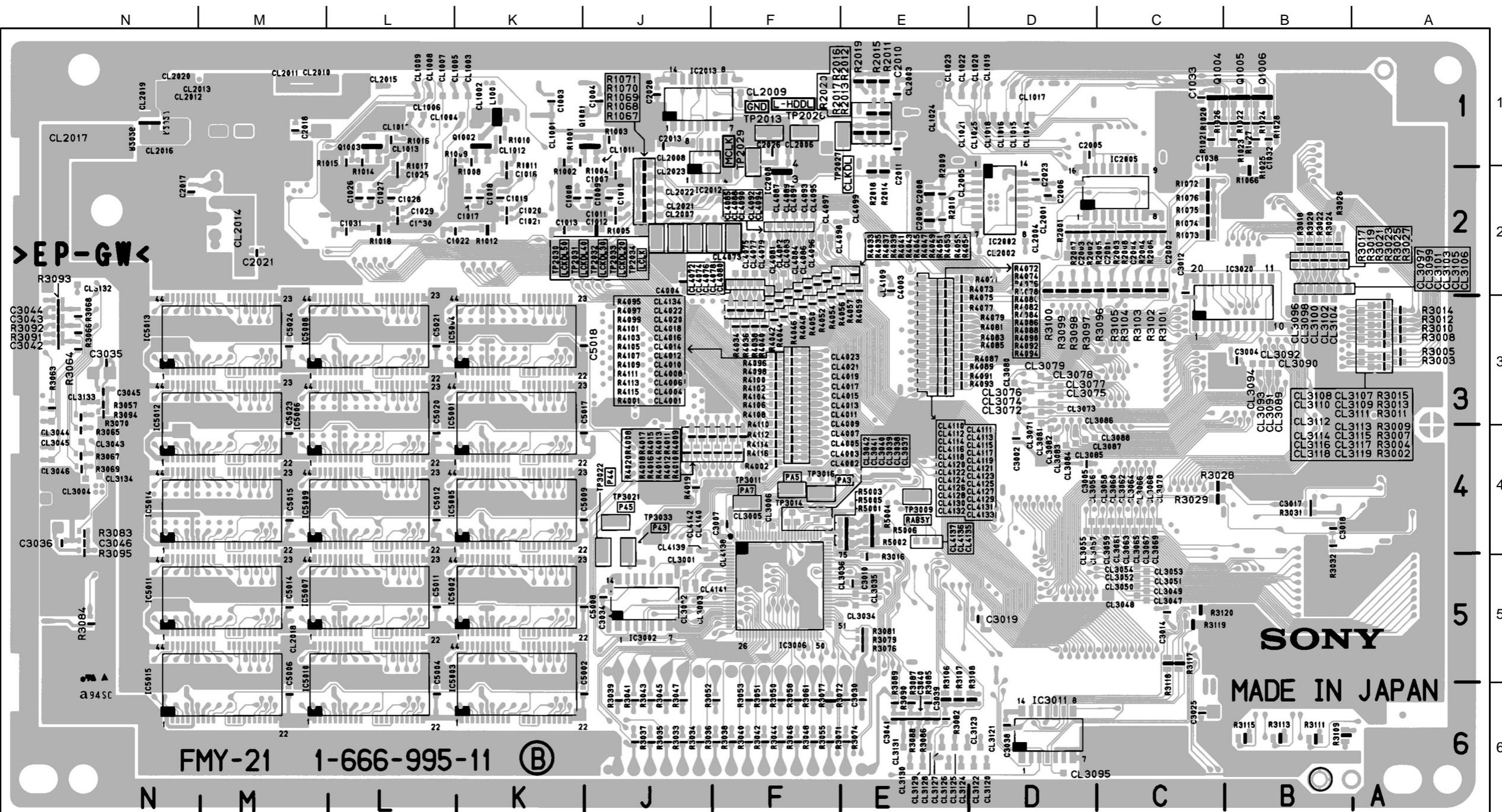
X1001
X3001

*:B SID

```

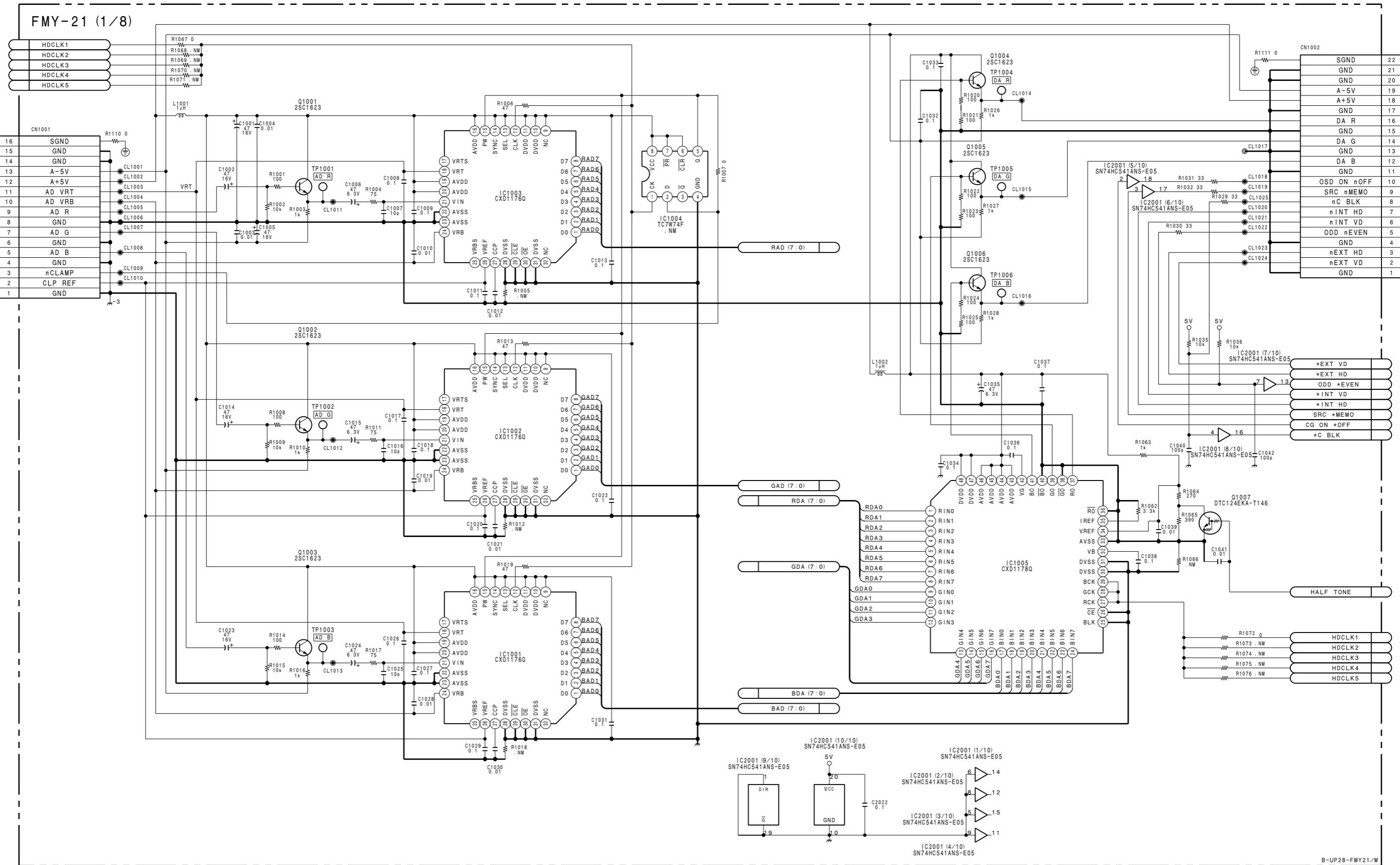


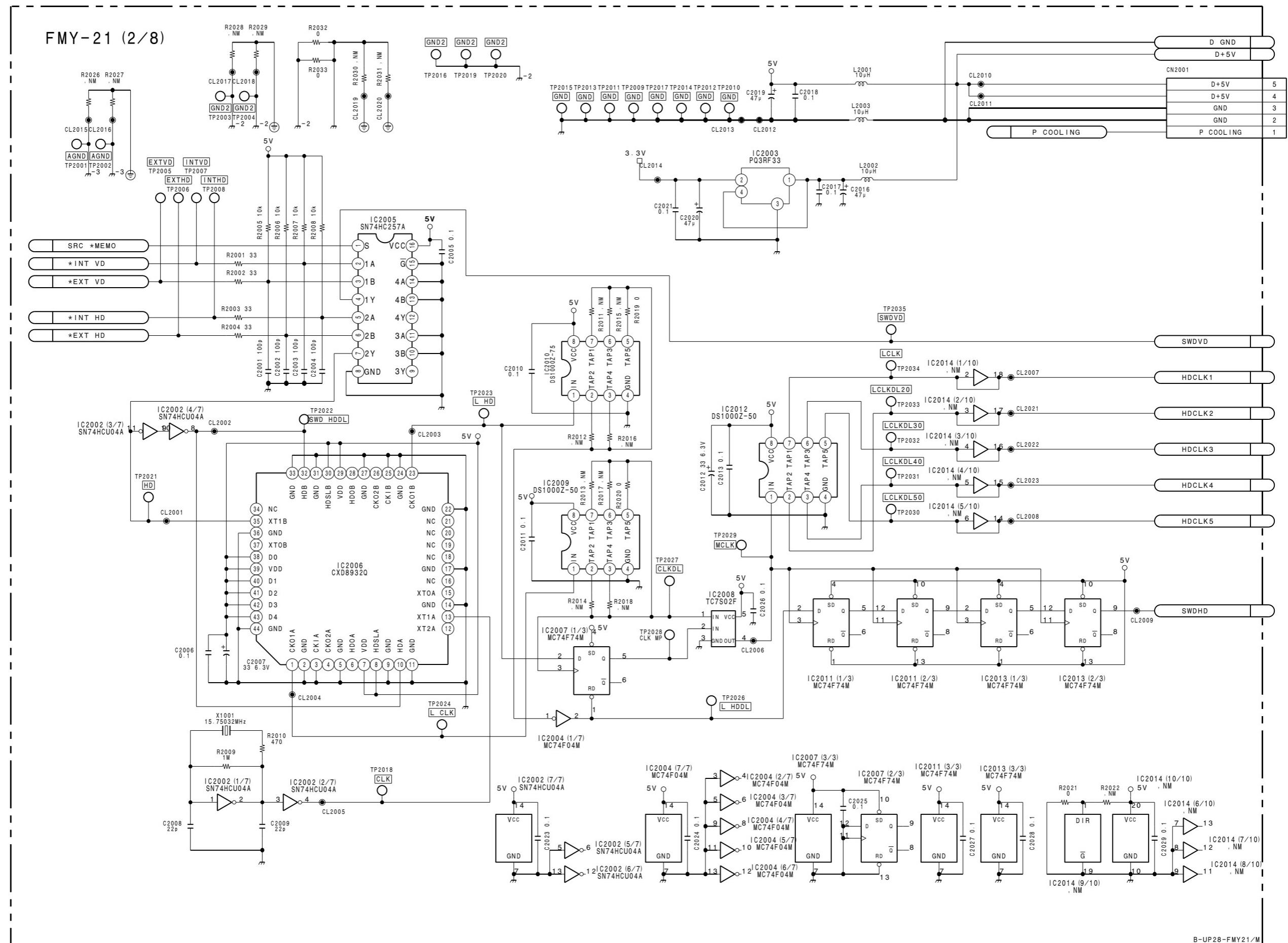
SONY MADE IN JAPAN

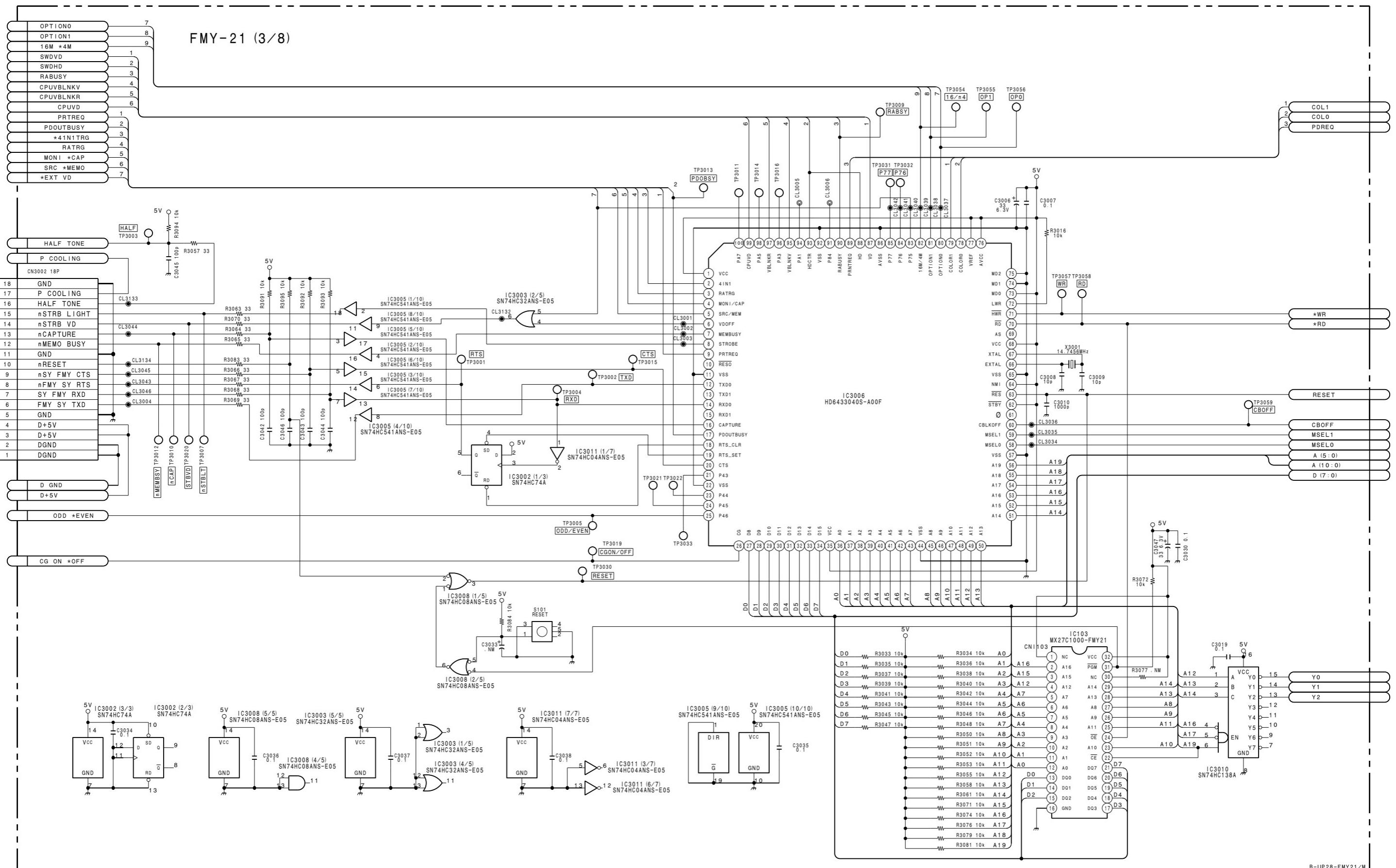


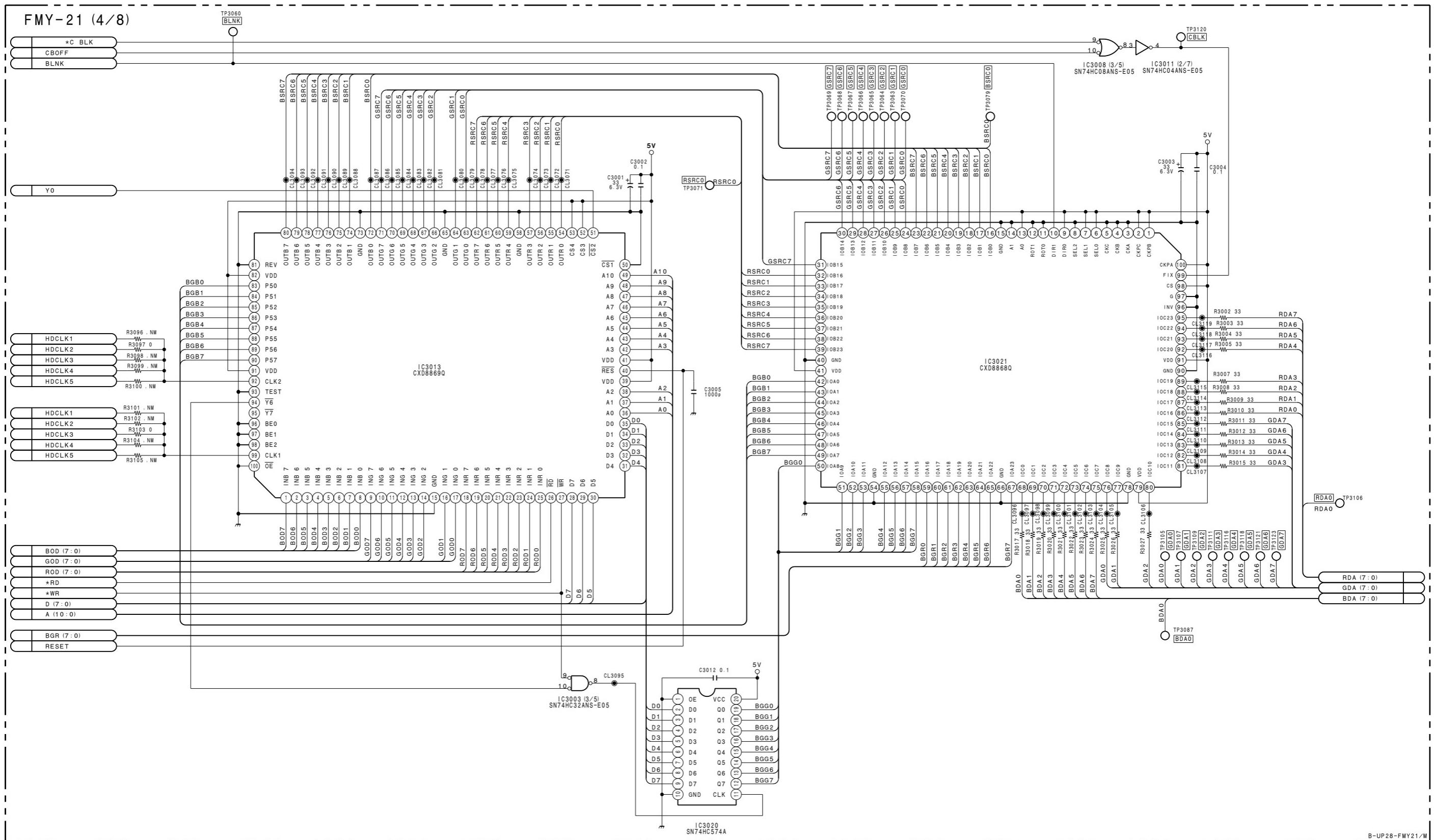
FMY-21 B SIDE
1-666-995-11

DIGITAL VIDEO

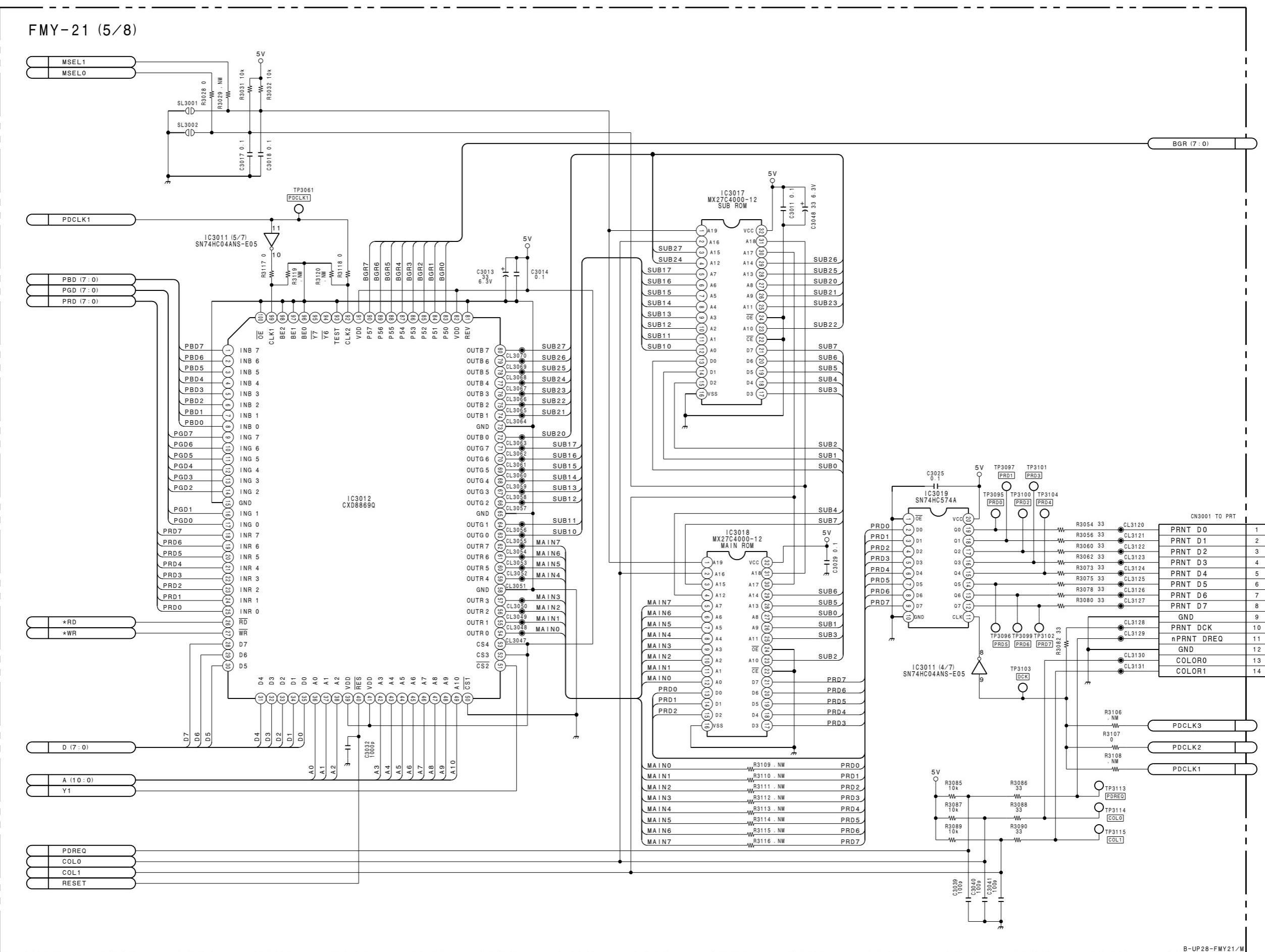








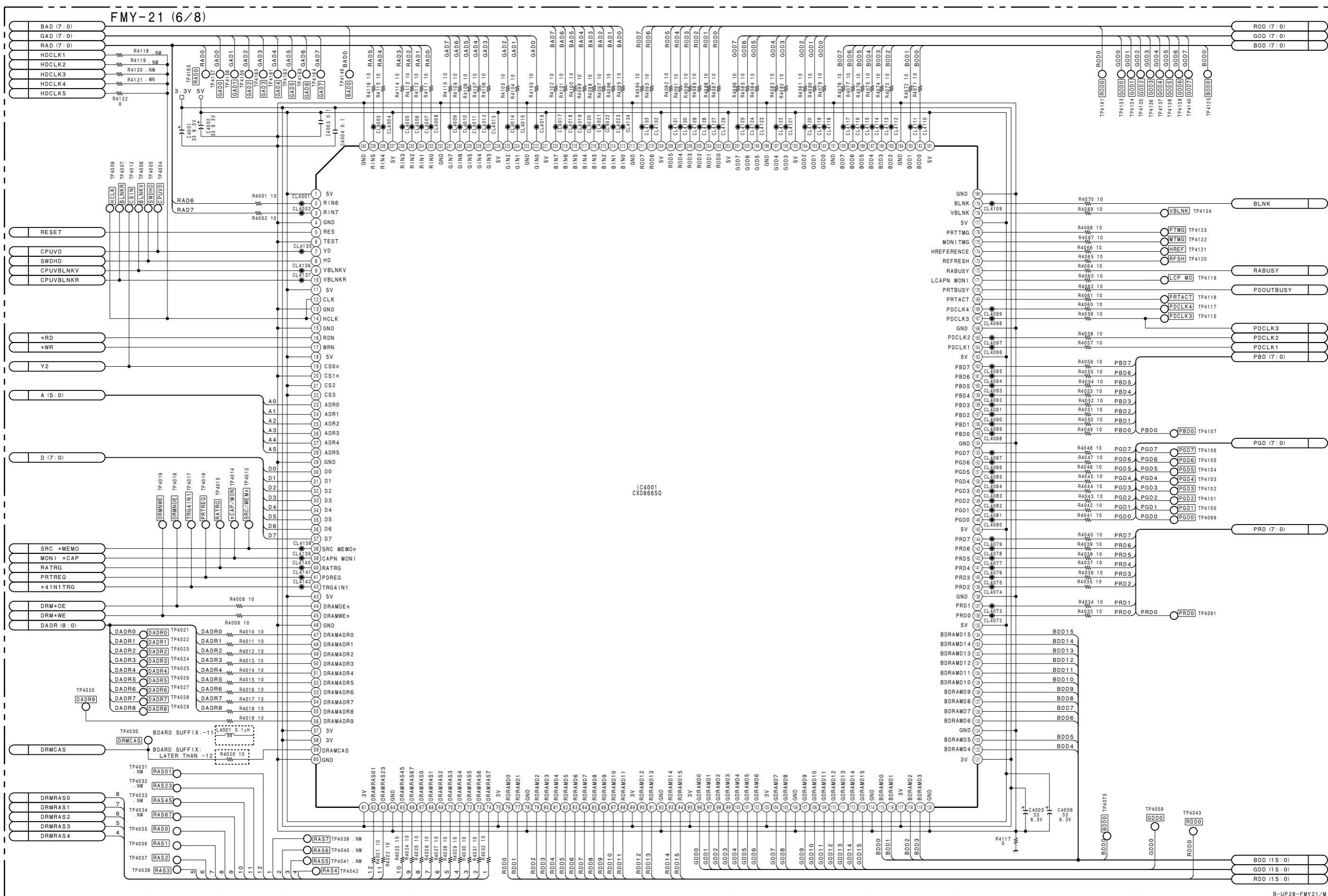
FMY-21 (5/8)



10-10

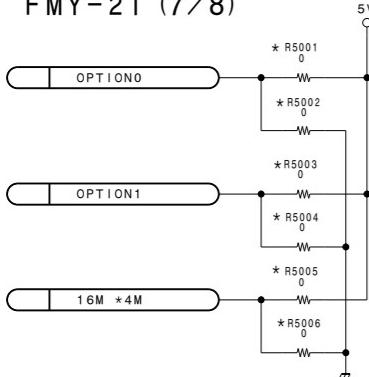
10-10

A**B****C****D****E****F****G****H**



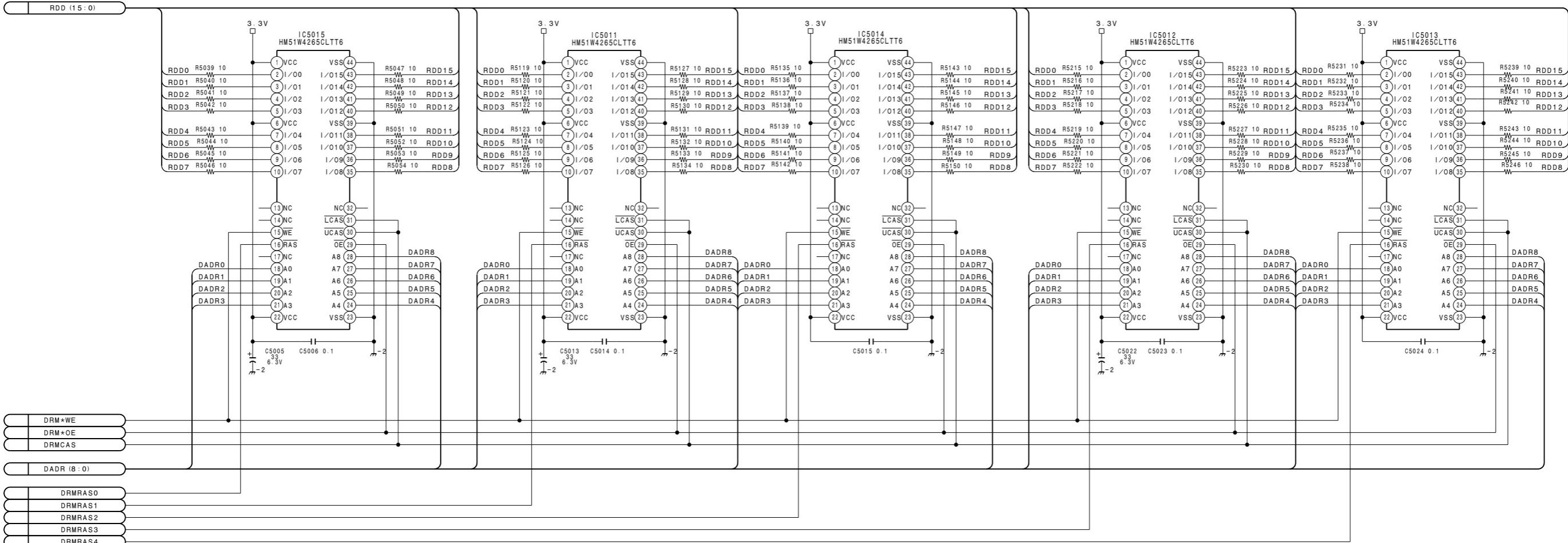
1

FMY-21 (7/8)



MODEL DESTINATION	MOUNTED DRAM REFERENCE NUMBER	* MOUNTED R REFERENCE NUMBER
UP-2800 (J/UC), 2900MD (J), 2300 (J/UC)	IC5003, 5010, 5015	R5002, 5004, 5006
UP-2950MD (J)	IC5001, 5002, 5003, 5005, 5006, 5007, 5009, 5010, 5011, 5012, 5014, 5015	R5001, 5004, 5006
UP-2800P (CE), 2900MD (UC), 2300P (CE)	IC5002, 5003, 5007, 5010, 5011, 5015	R5002, 5003, 5006
UP-2850P (CE), 2950MD (UC)	IC5001, 5002, 5003, 5004, 5005, 5006, 5007, 5008, 5009, 5010, 5011, 5012, 5013, 5014, 5015	R5001, 5003, 5006

2



B-UP28-FMY21/M

A

B

C

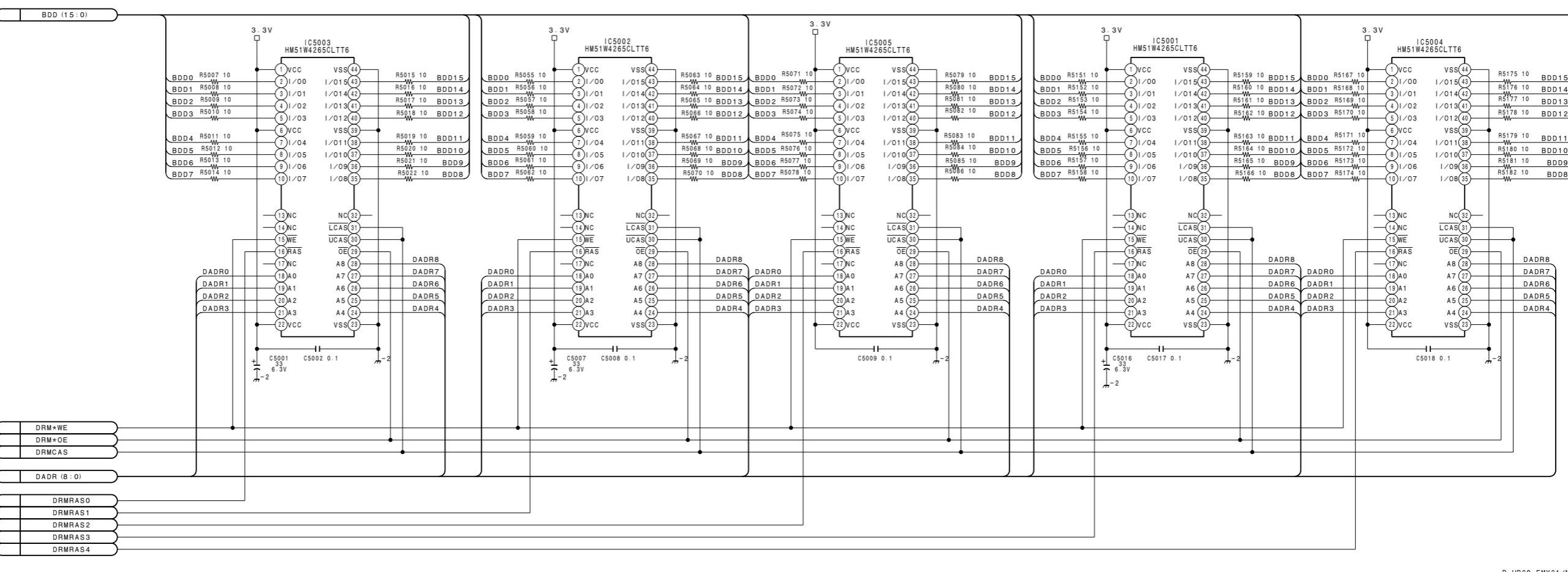
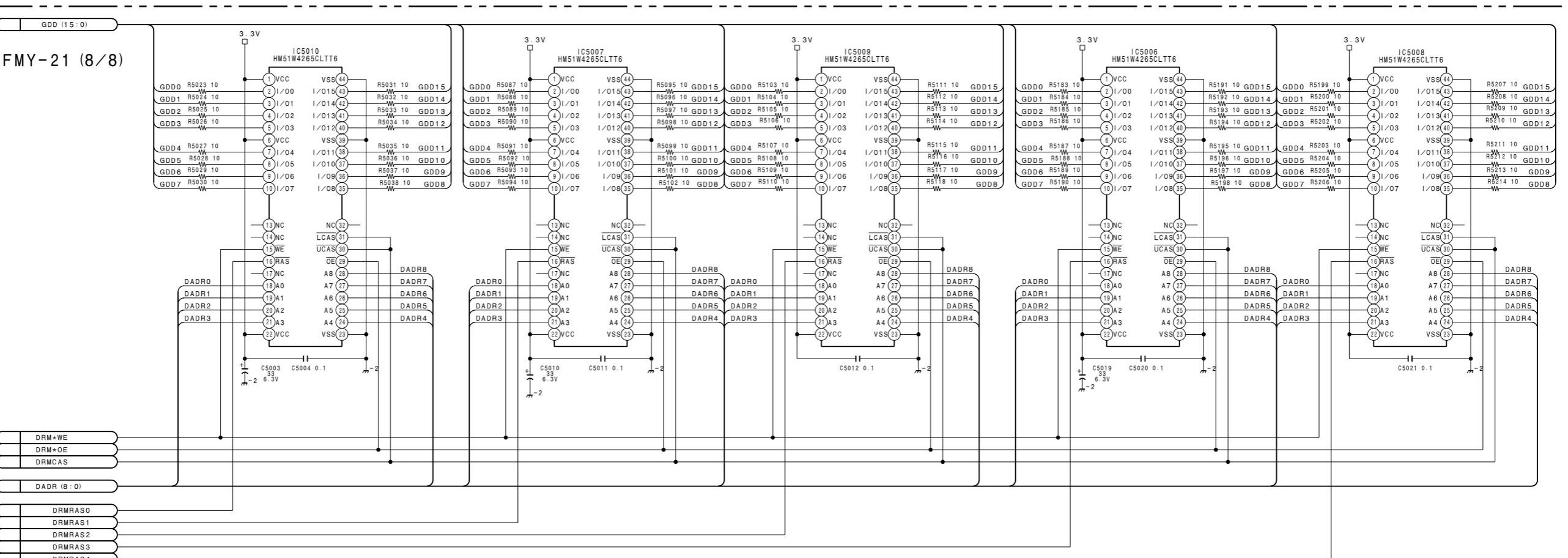
D

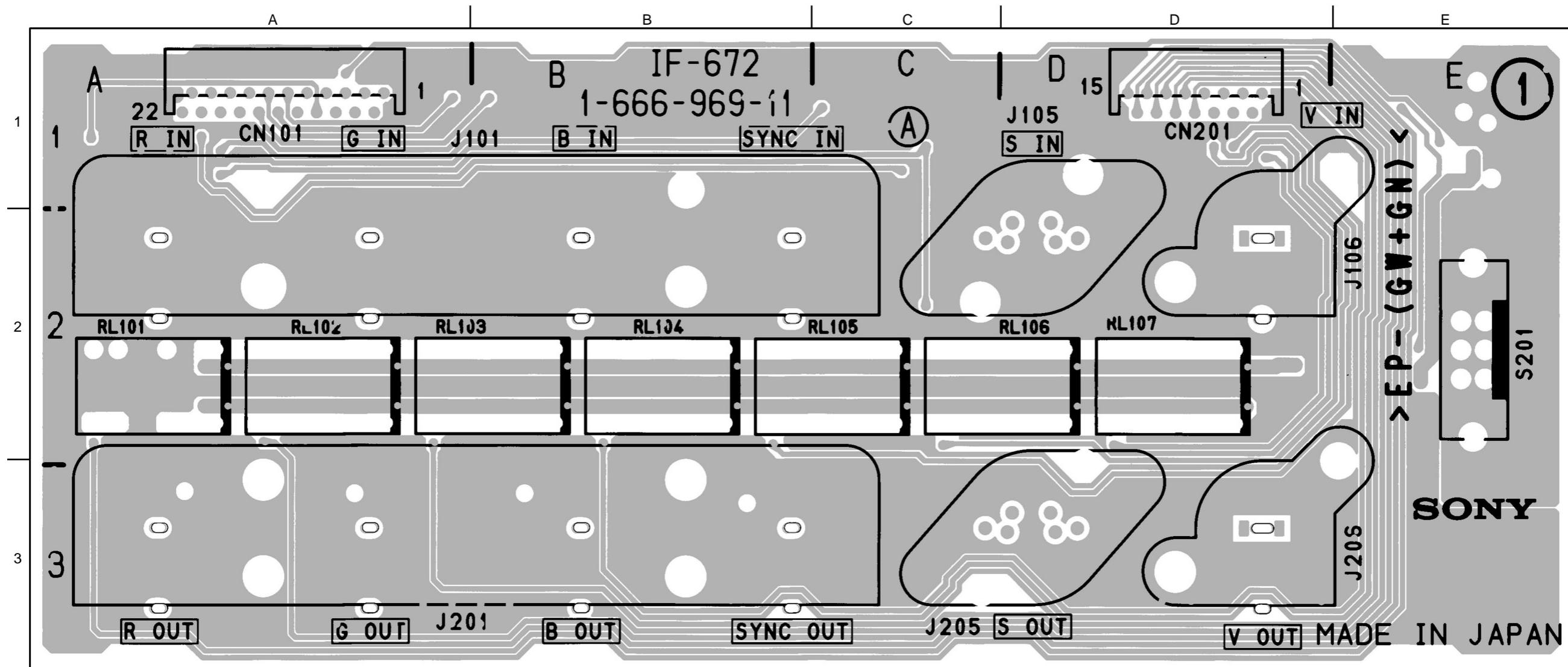
E

F

G

H



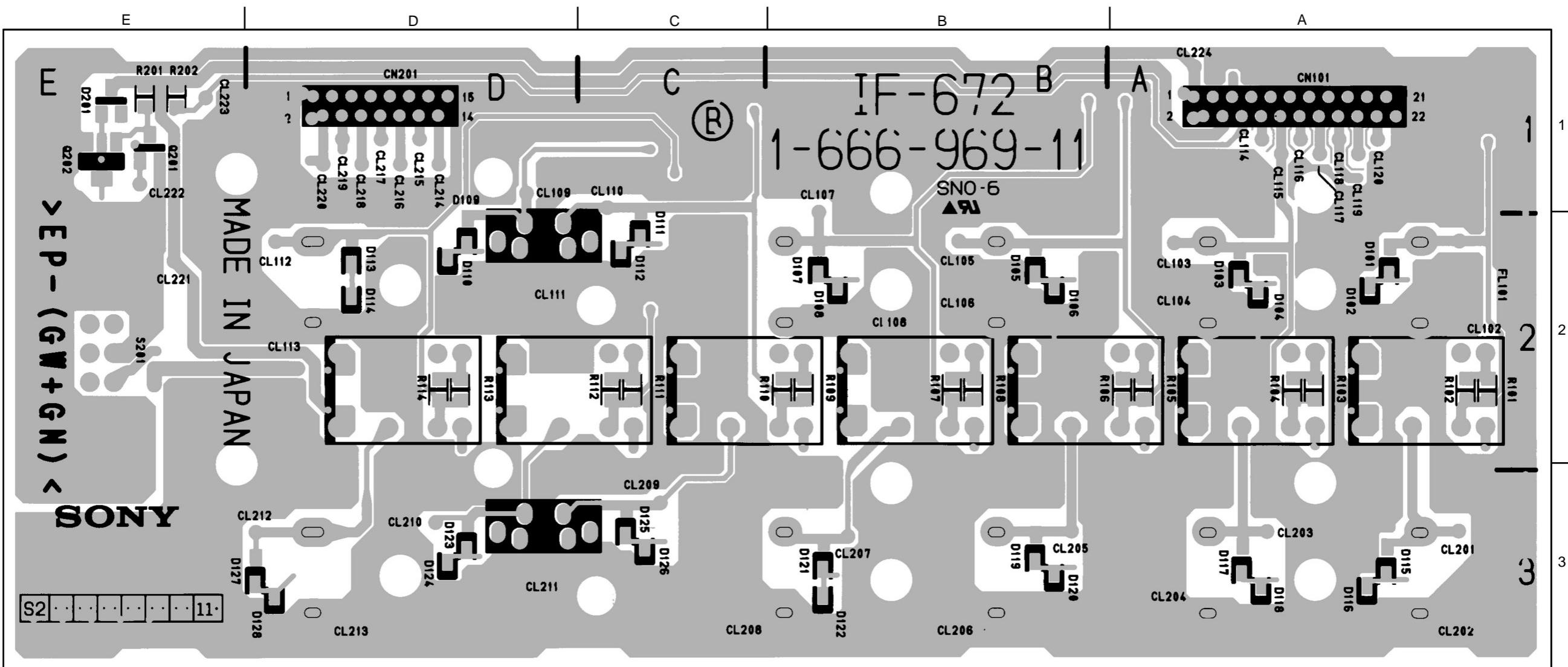


IF-672 A SIDE
1-666-969-11

IF-672

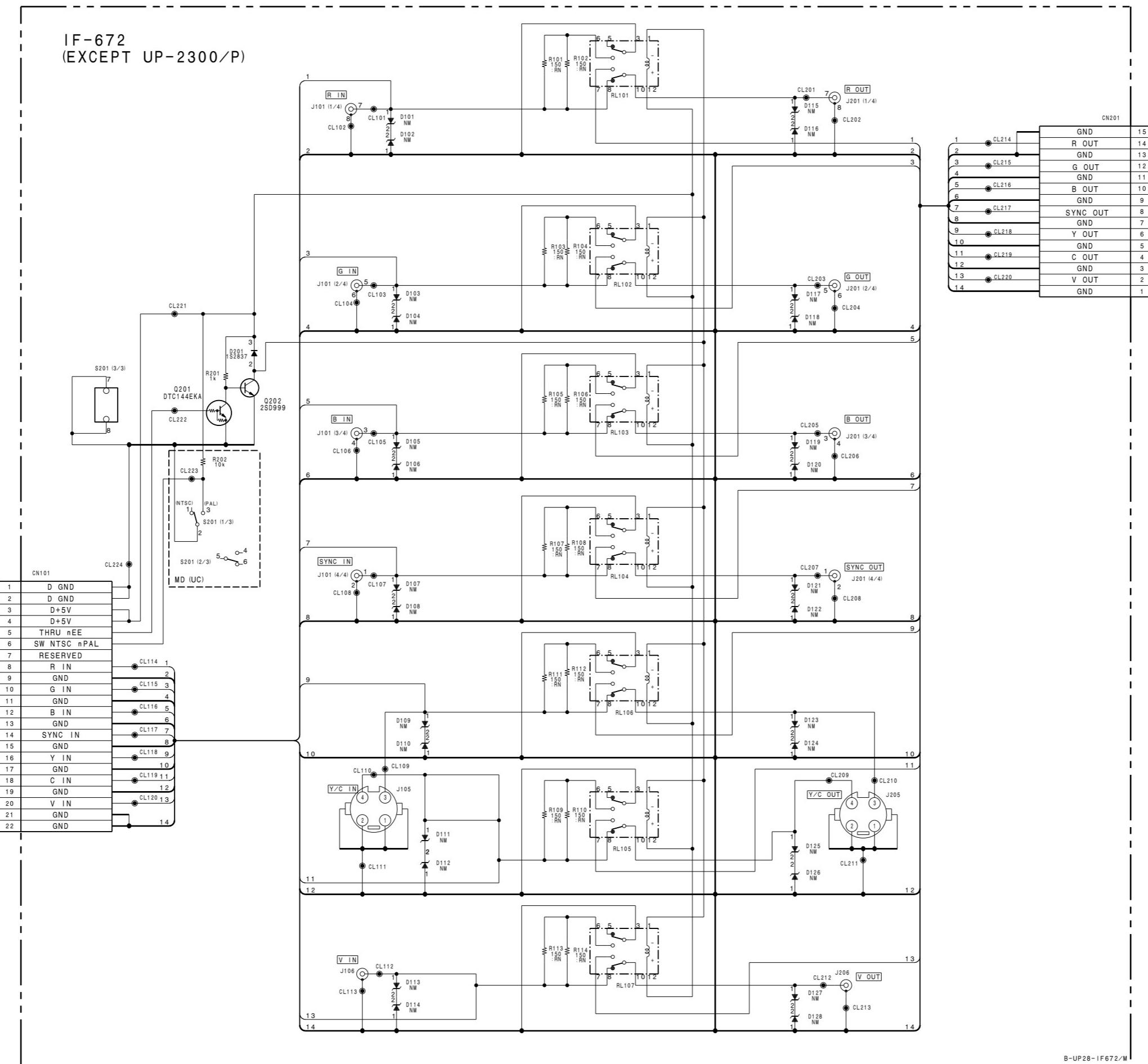
CN101	A-1	*D113	D-2	*D128	D-3
CN201	D-1	*D114	D-2	*D201	E-1
*D101	A-2	*D116	A-3	J101	A-2
*D102	A-2	*D117	A-3	J105	D-2
*D103	A-2	*D118	A-3	J106	D-2
*D104	A-2	*D119	B-3	J201	A-3
*D105	B-2	*D120	B-3	J205	D-3
*D106	B-2	*D121	B-3	J206	D-3
*D107	B-2	*D122	B-3		
*D108	B-2	*D123	D-3	*Q201	E-1
*D109	D-2	*D124	D-3	*Q202	E-1
*D110	D-2	*D125	C-3		
*D111	C-2	*D126	C-3	S201	E-2
*D112	C-2	*D127	D-3		

*: B SIDE



IF-672 B SIDE
1-666-969-11

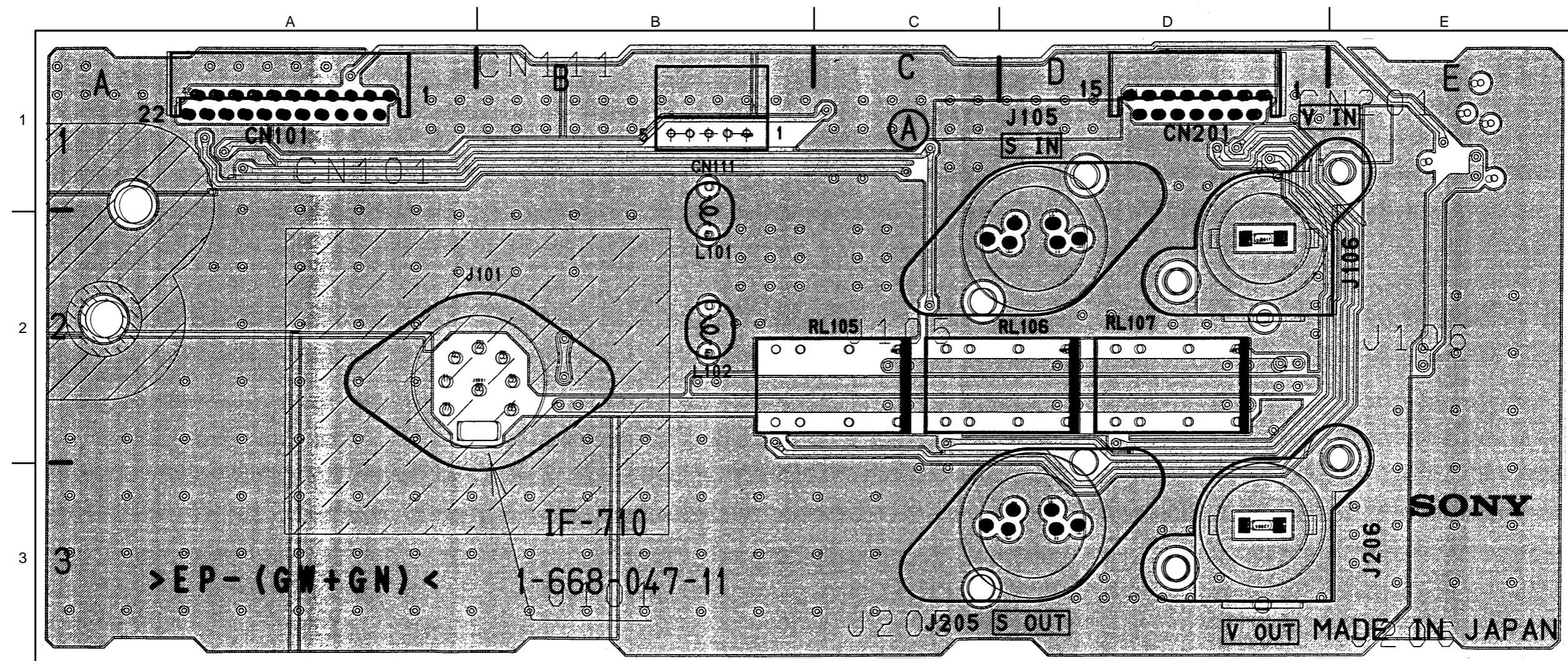
SWITCH/TERMINAL



10-16

10-16

A**B****C****D****E****F****G****H**



IF-710 A SIDE
1-668-047-11

IF-710

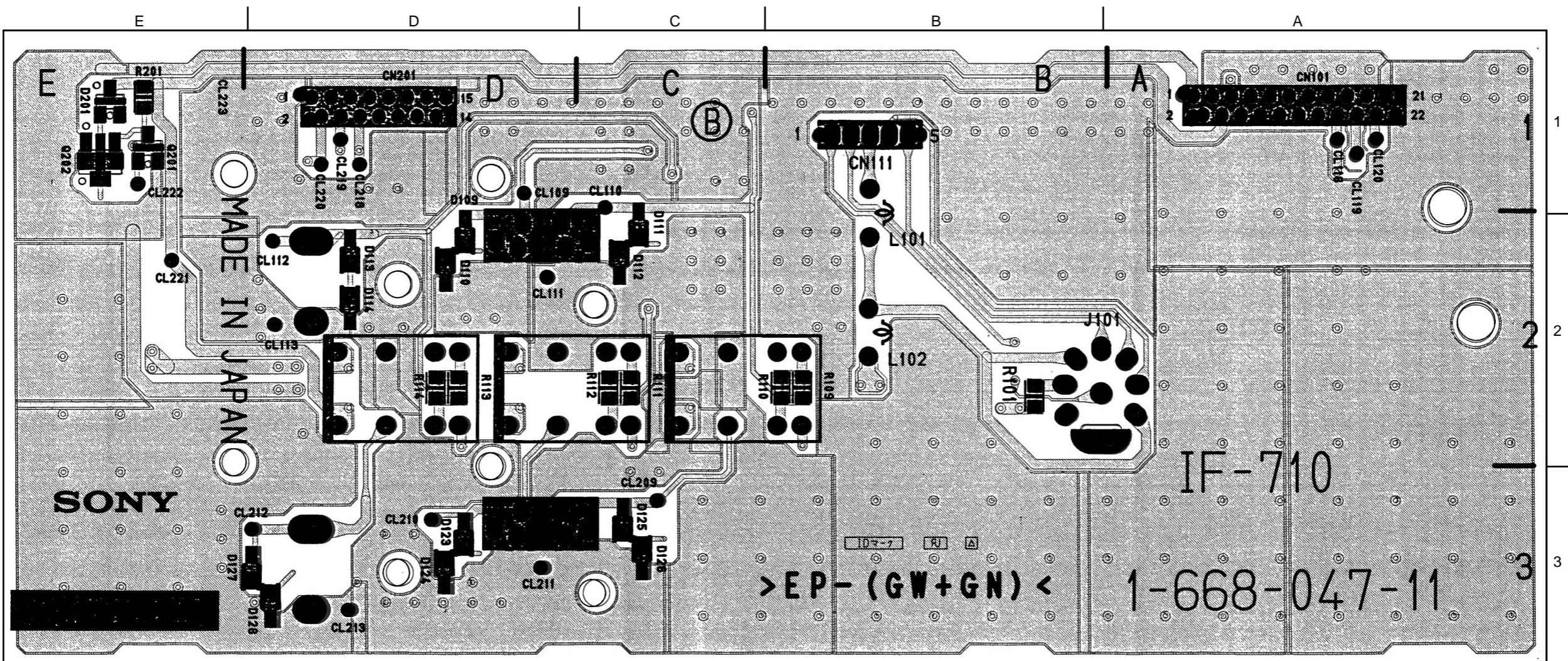
CN101 A-1
CN201 D-1

*D201 E-1

J105 D-2
J106 D-2
J205 D-3
J206 D-3

*Q201 E-1
*Q202 E-1

* : B SIDE



IF-710 B SIDE
1-668-047-11

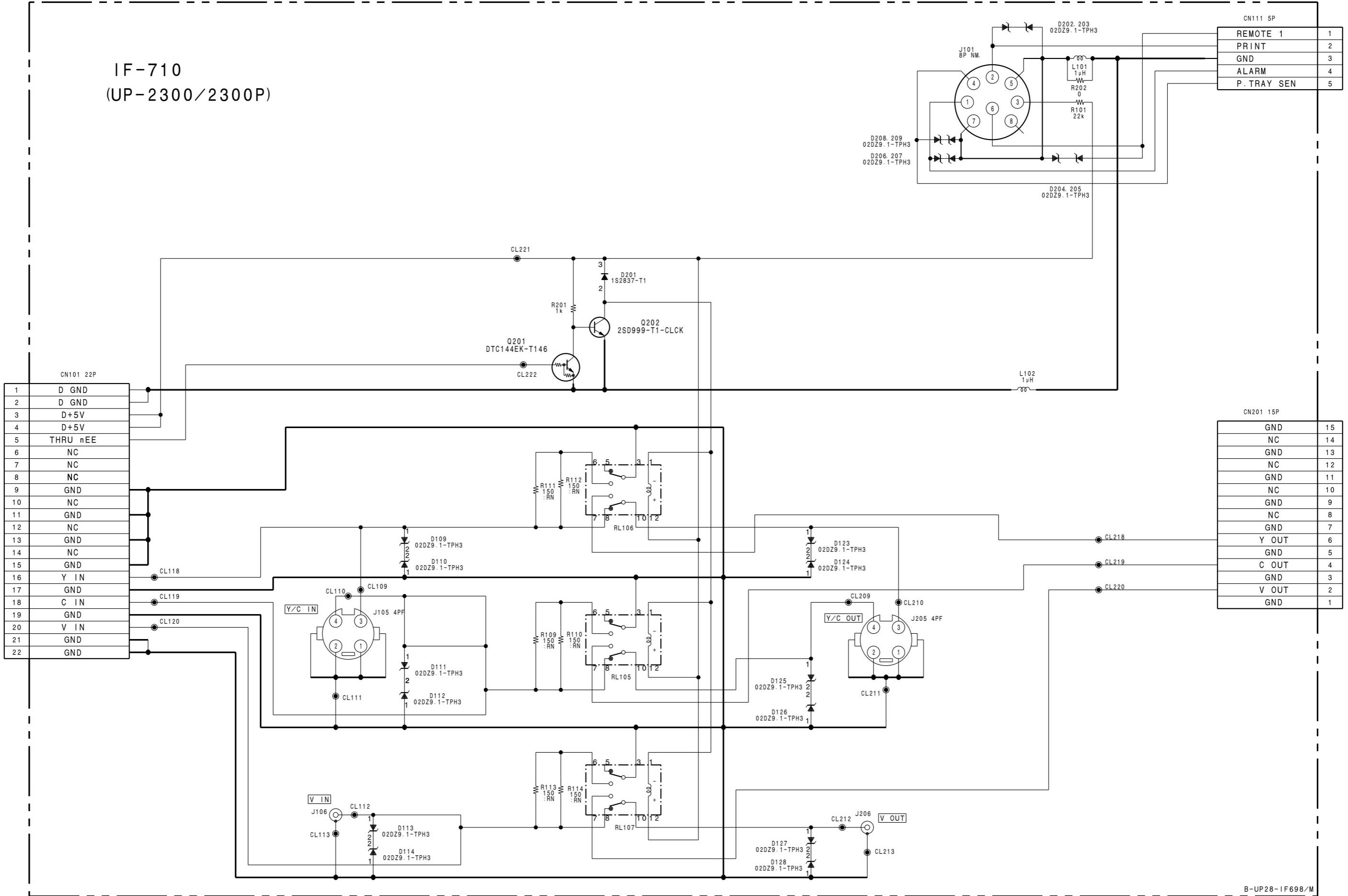
1

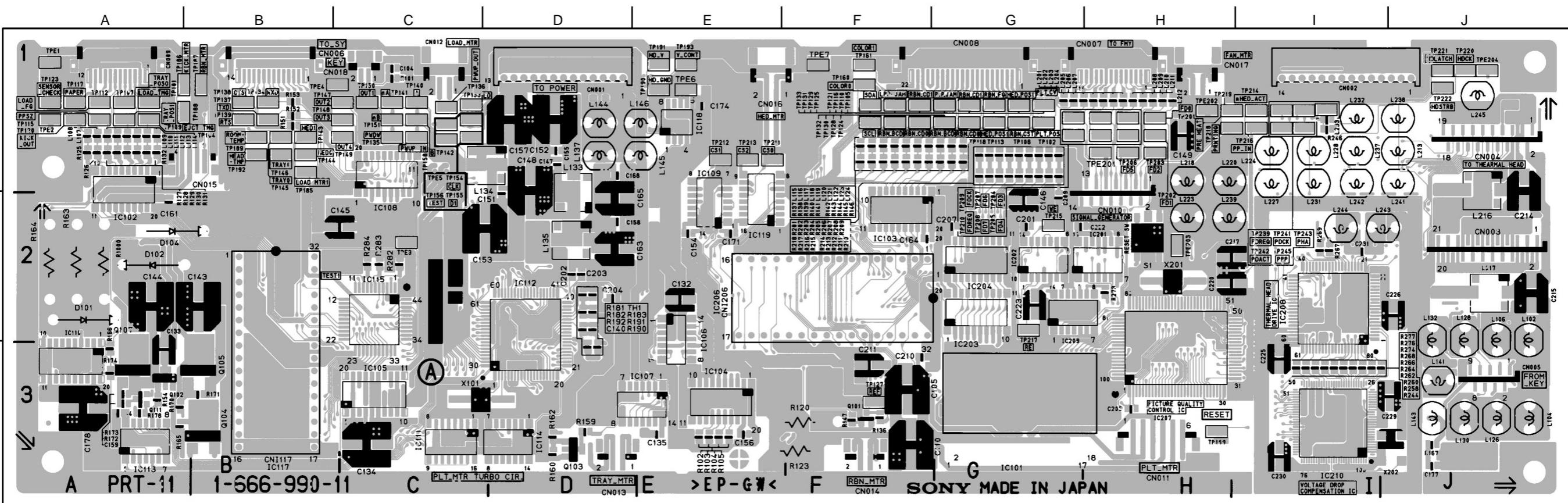
2

3

4

5

IF-710
(UP-2300/2300P)

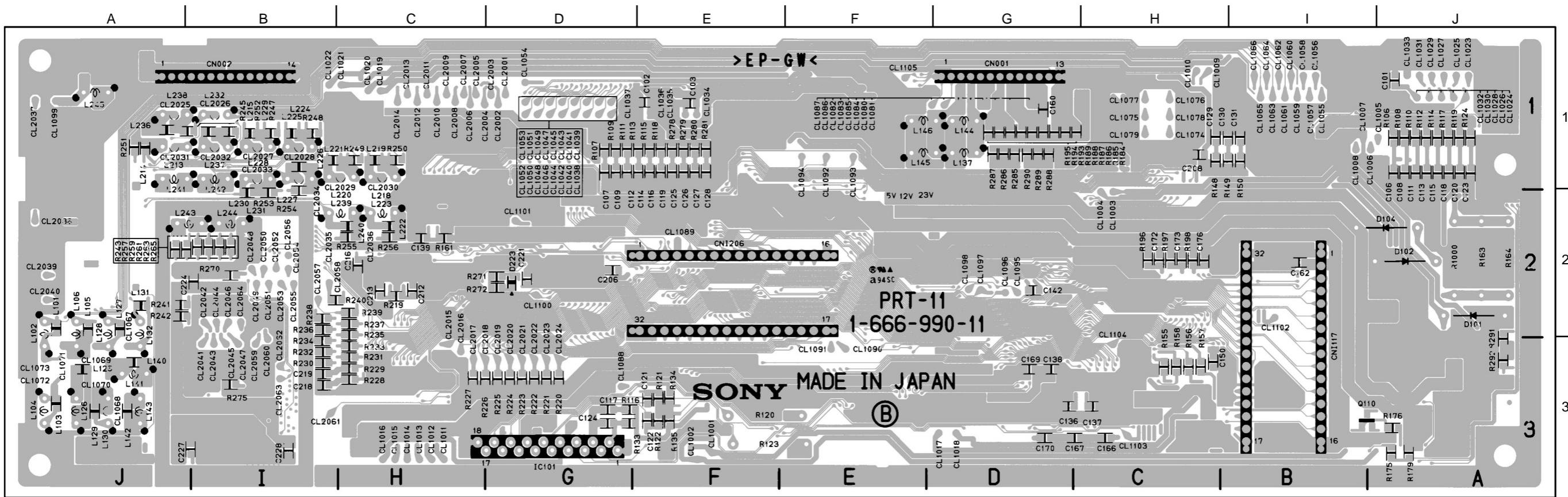


PRT-11 A SIDE
1-666-990-11

PRT-11

CN1	D-1	IC109	E-1
CN2	I-1	IC110	A-2
CN3	J-2	IC111	C-3
CN4	J-1	IC112	D-2
CN5	J-3	IC113	A-3
CN6	B-1	IC114	D-3
CN7	H-1	IC115	C-2
CN8	G-1	IC117	B-3
CN9	A-1	IC118	E-1
CN10	H-2	IC119	E-2
CN11	H-3	IC201	H-2
CN12	C-1	IC202	G-2
CN13	D-3	IC203	G-1
CN14	F-3	IC204	G-2
CN15	B-1	IC206	E-2
CN16	E-1	IC207	H-2
CN17	I-1	IC208	I-2
CN18	B-1	IC209	G-2
CN101	E-1	IC210	I-3
CN1520	E-1		
CN1117	B-3	Q101	F-3
CNI206	E-2	Q102	A-3
		Q103	D-3
D101	A-2	Q104	B-3
D102	A-2	Q105	B-3
D104	A-2	Q107	A-2
*D223	G-2	*Q110	B-3
		Q111	A-3
IC101	G-3		
IC102	A-2	S1	H-2
IC103	F-2		
IC104	E-3	TH1	D-2
IC105	C-3		
IC106	E-2	X101	C-3
IC107	E-3	X201	H-2
IC108	C-2	X202	J-3

*: B SIDE

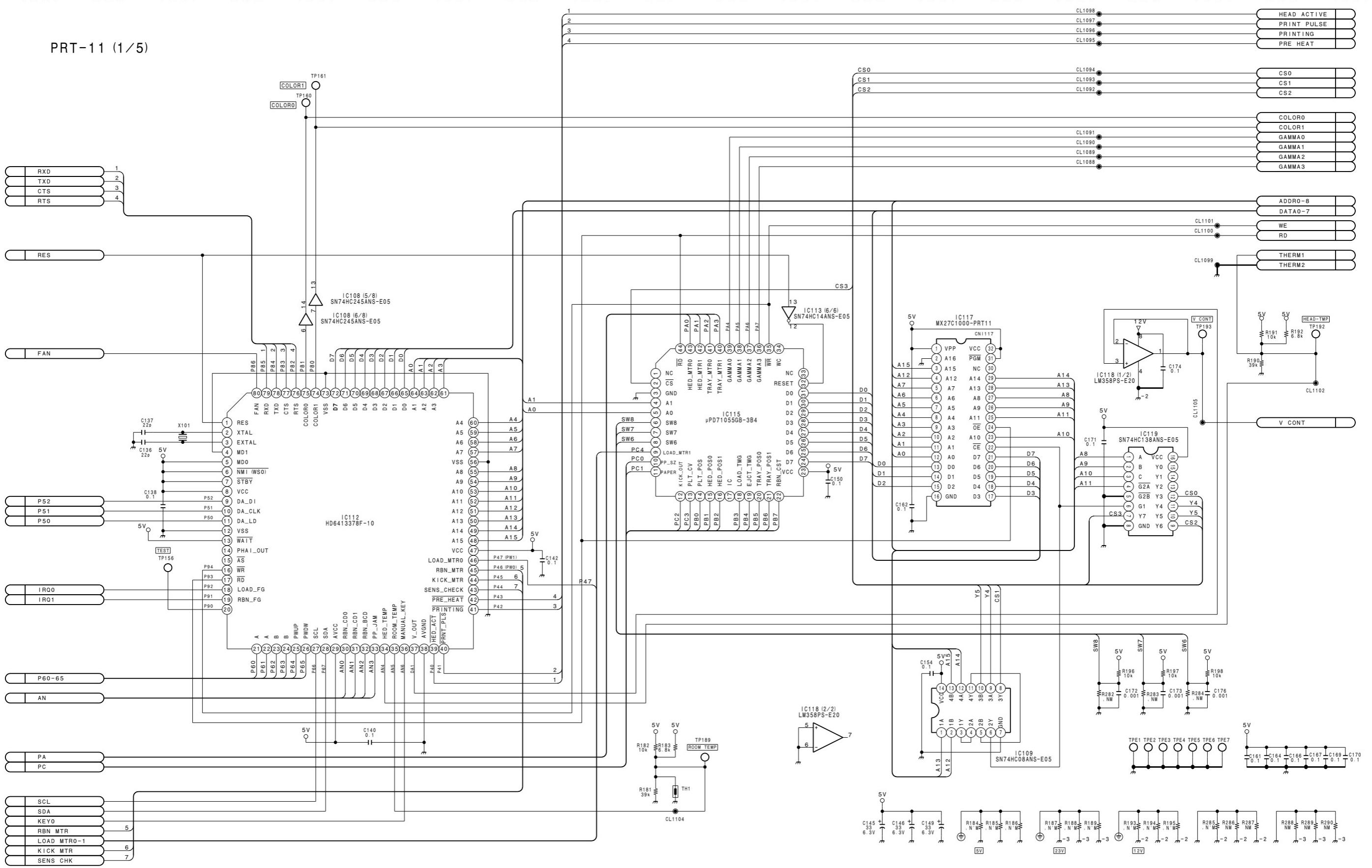


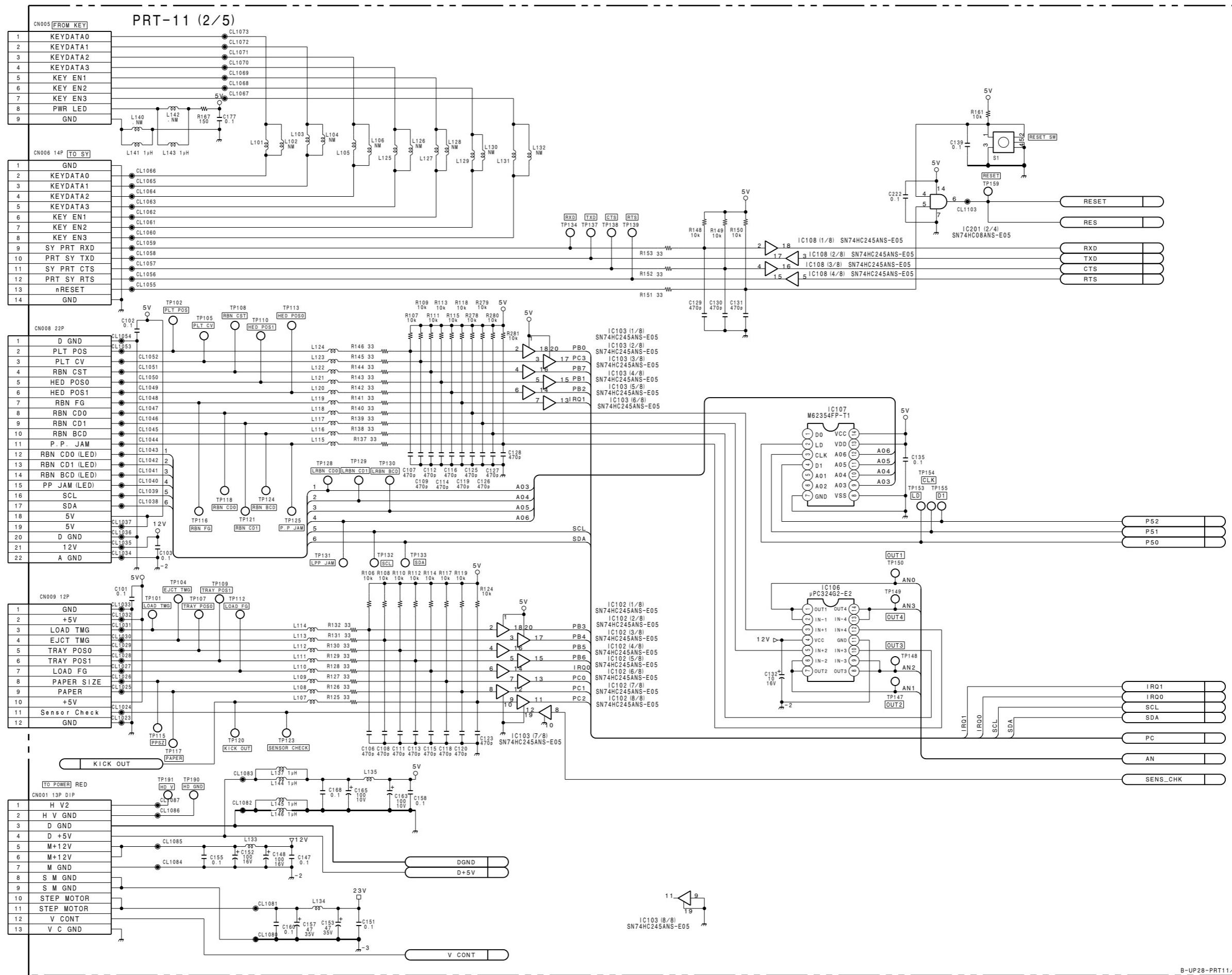
PRT-11 B SIDE
1-666-990-11

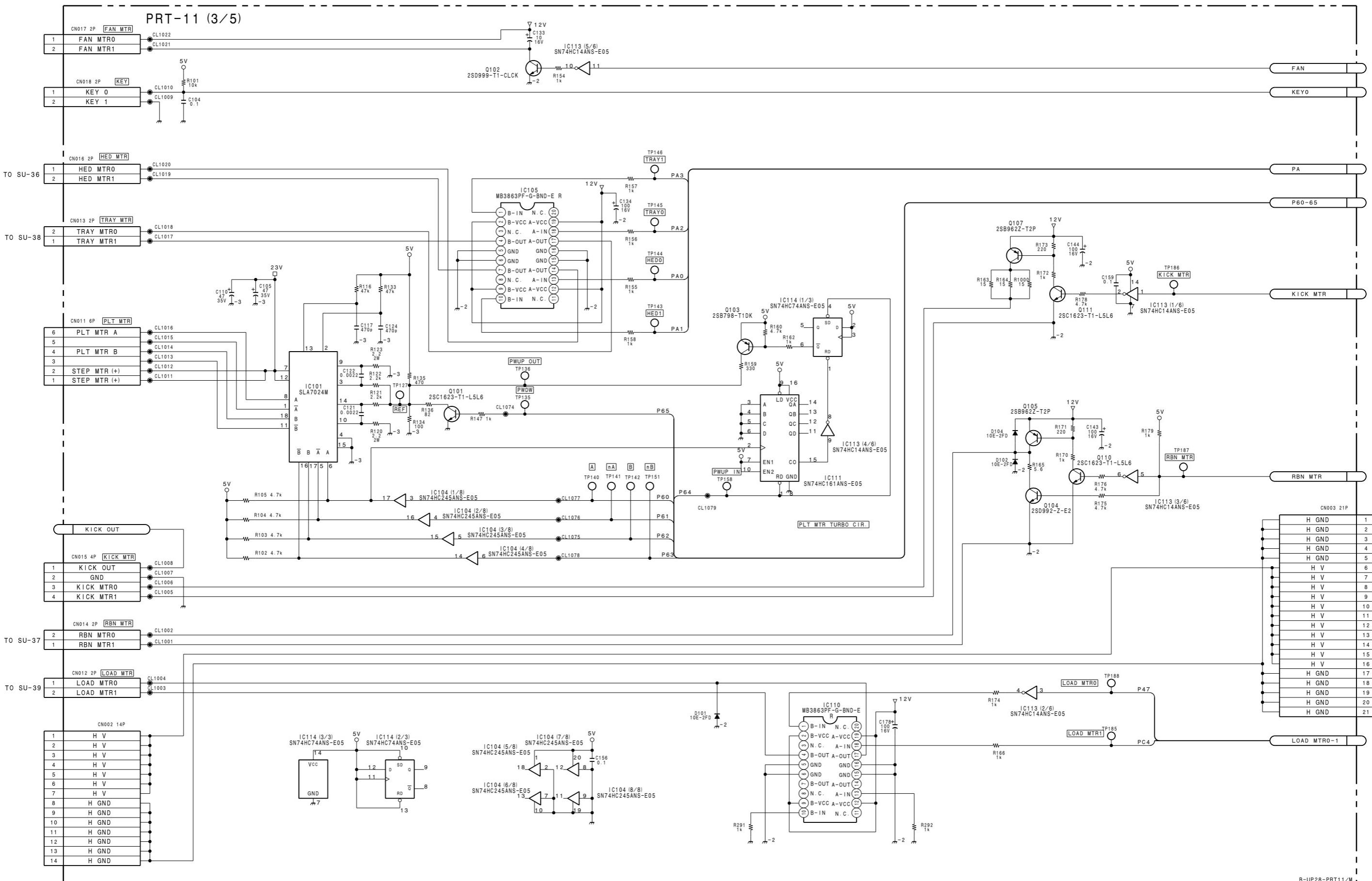
PRINT CONTROL

1

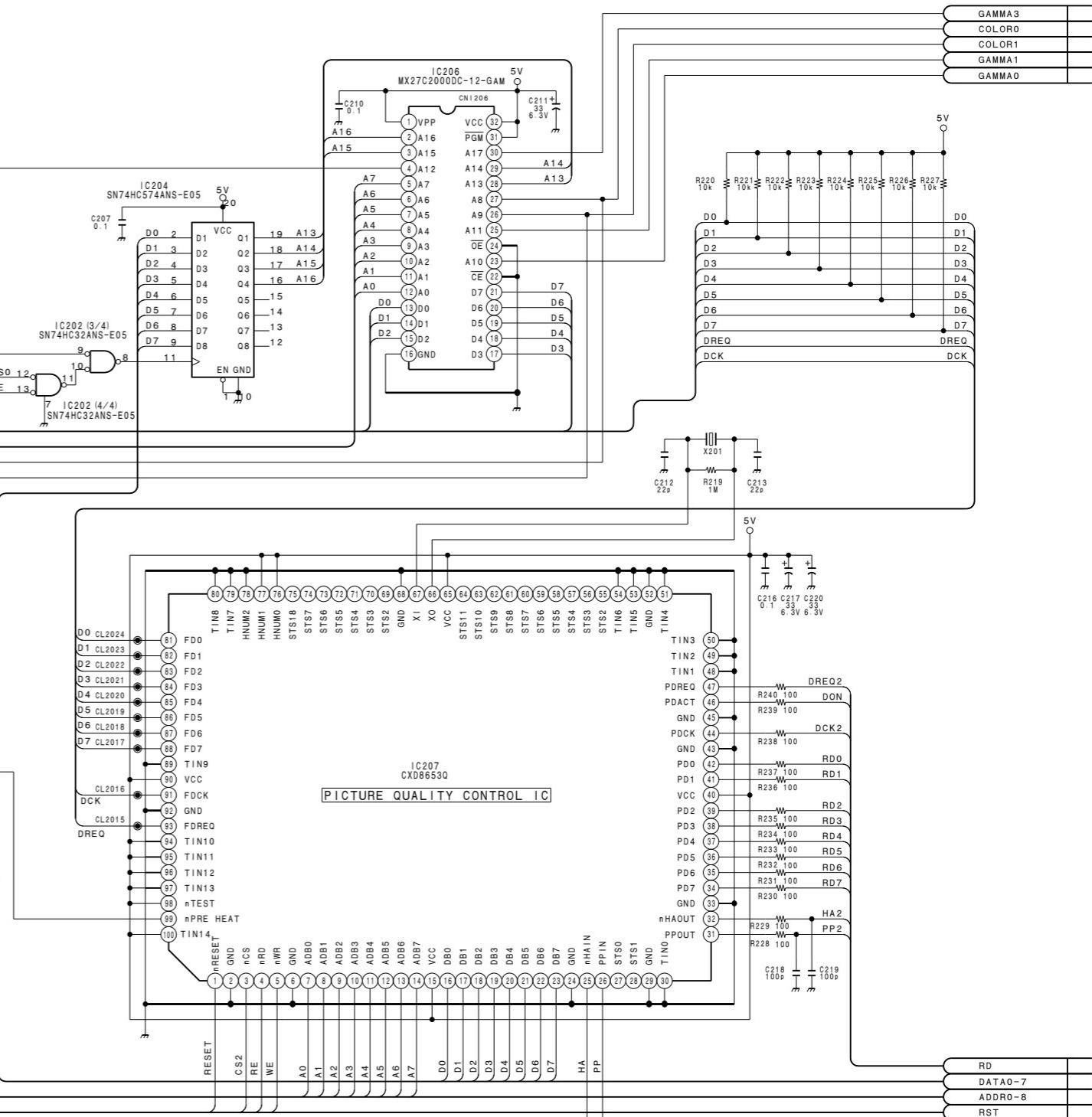
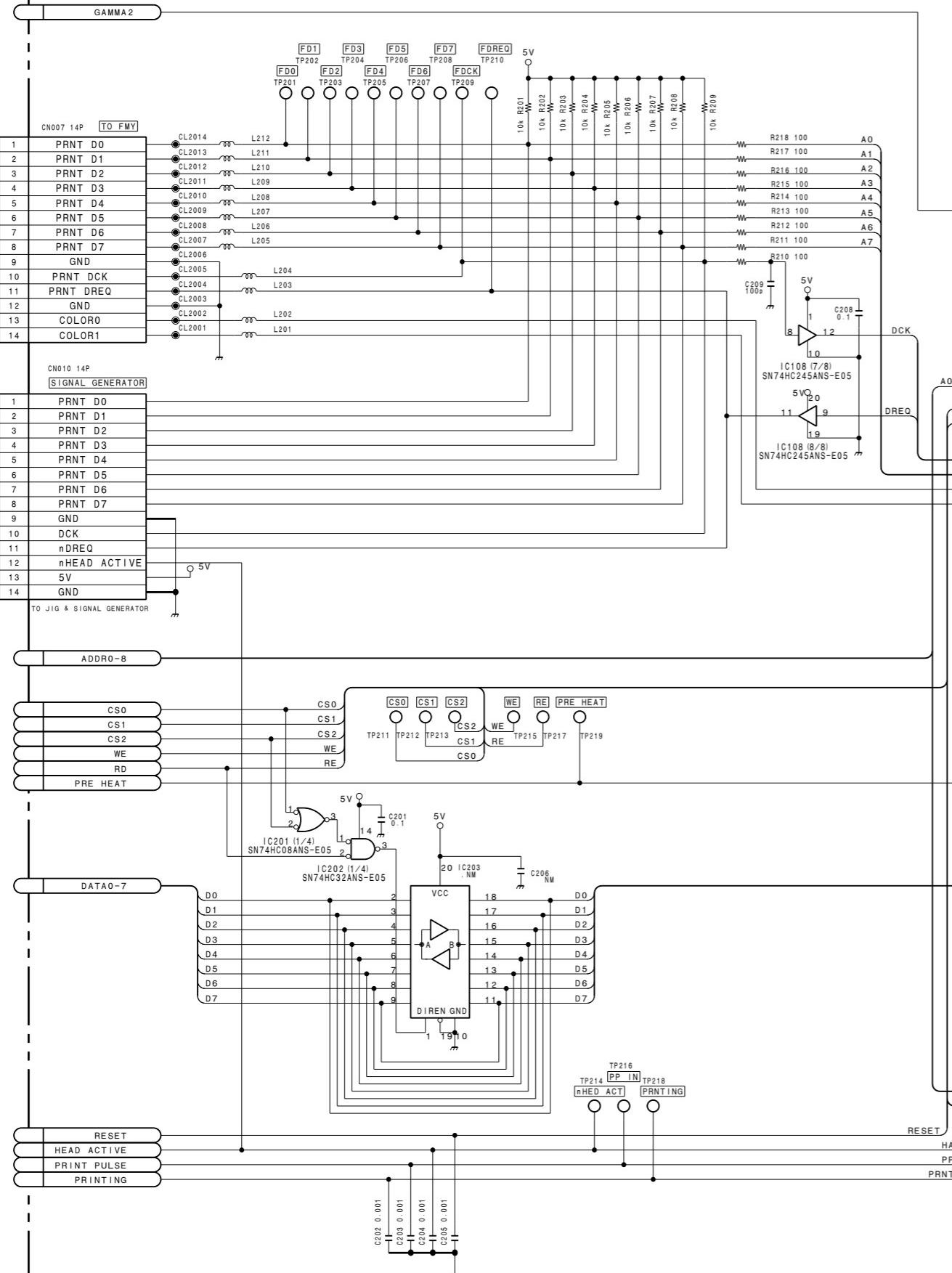
PRT-11 (1/5)

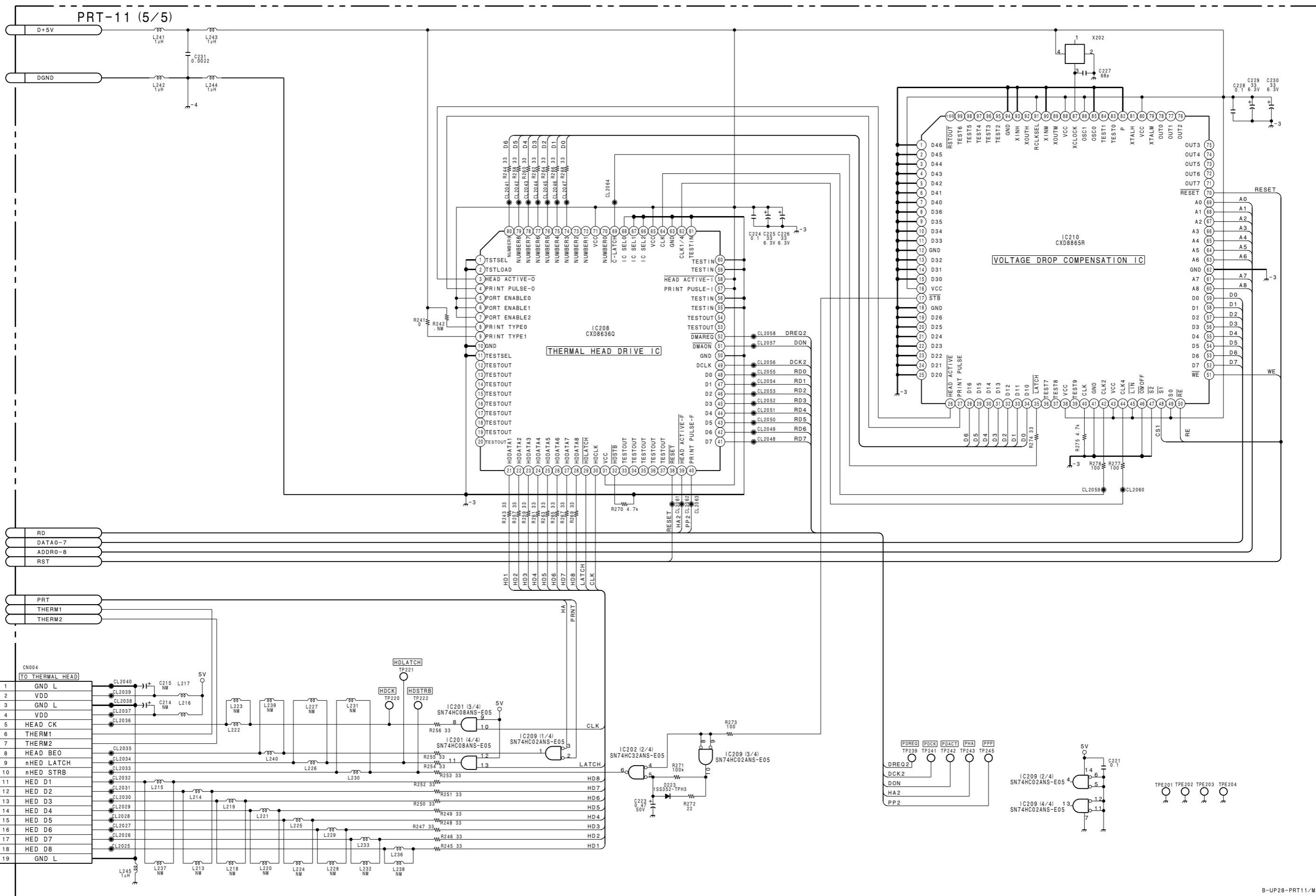


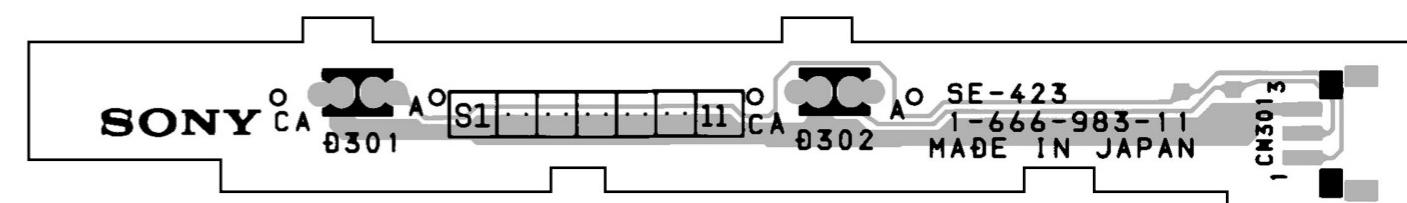
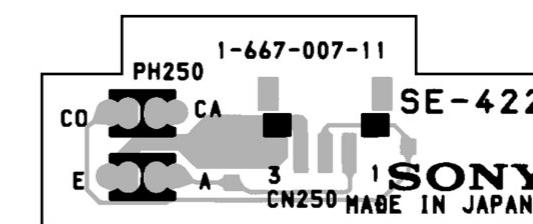
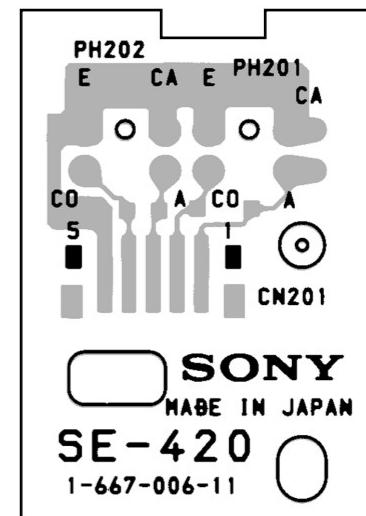
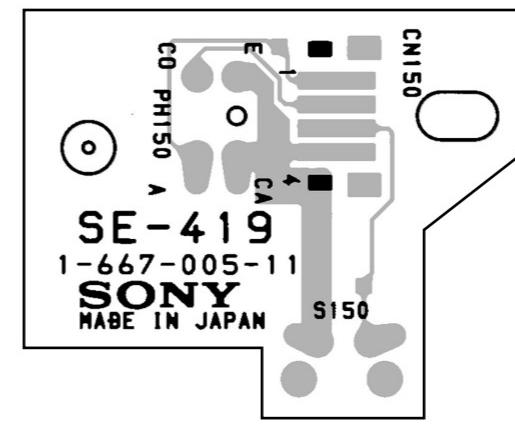
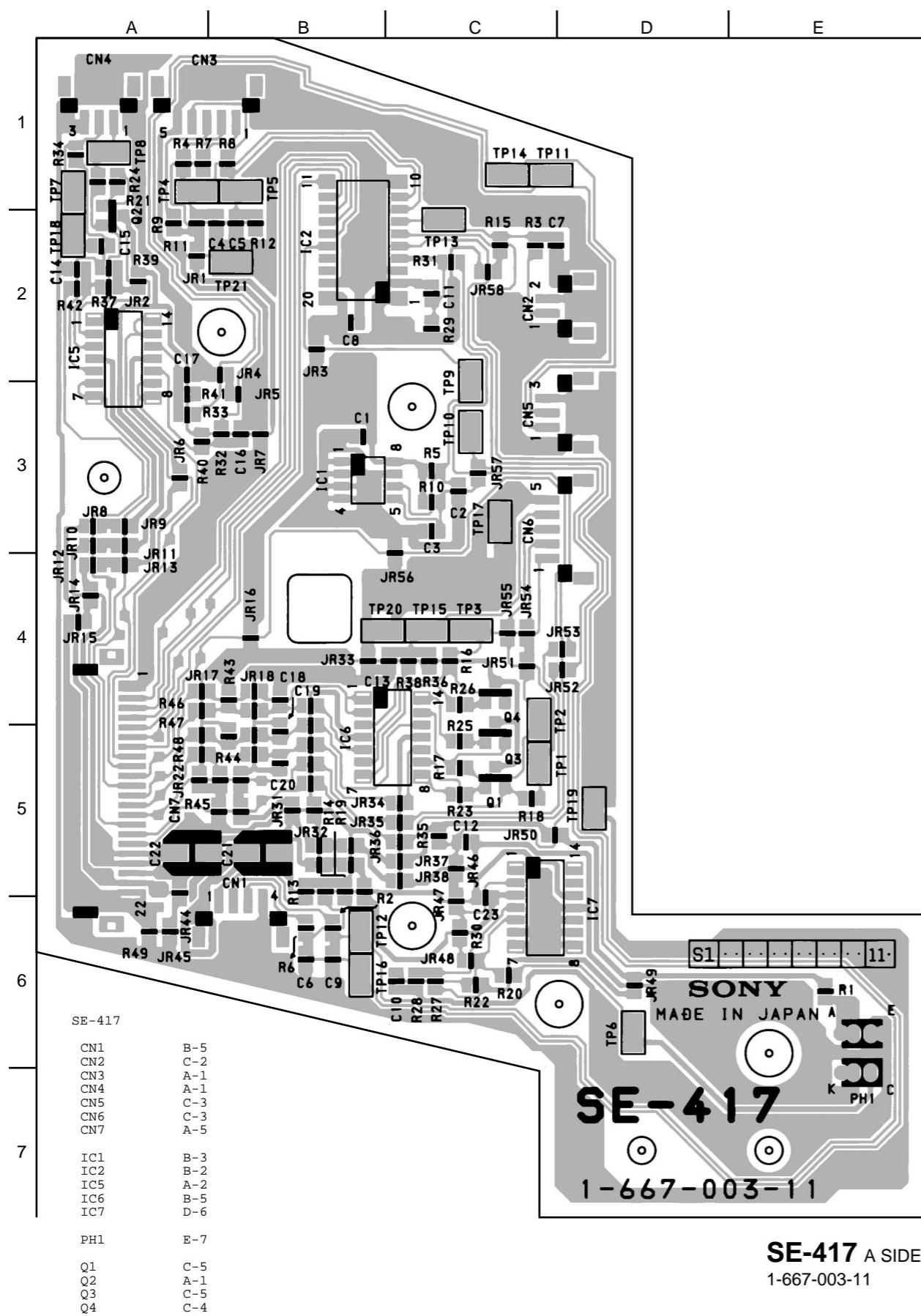




PRT-11 (4/5)

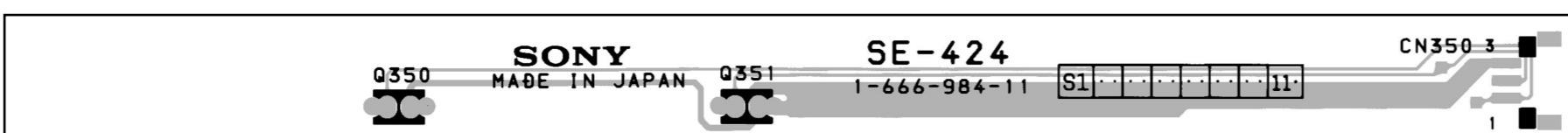




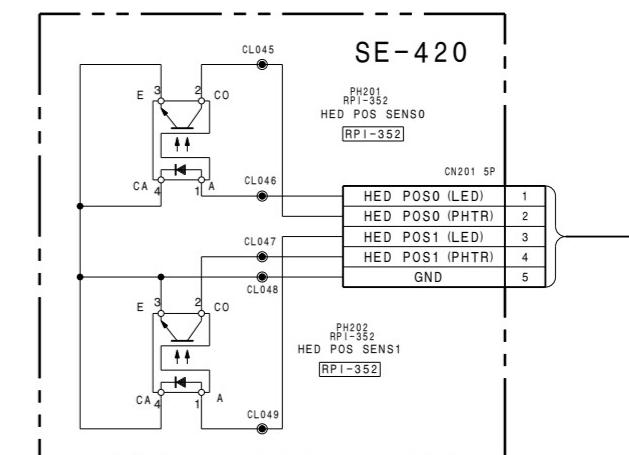


SENSOR

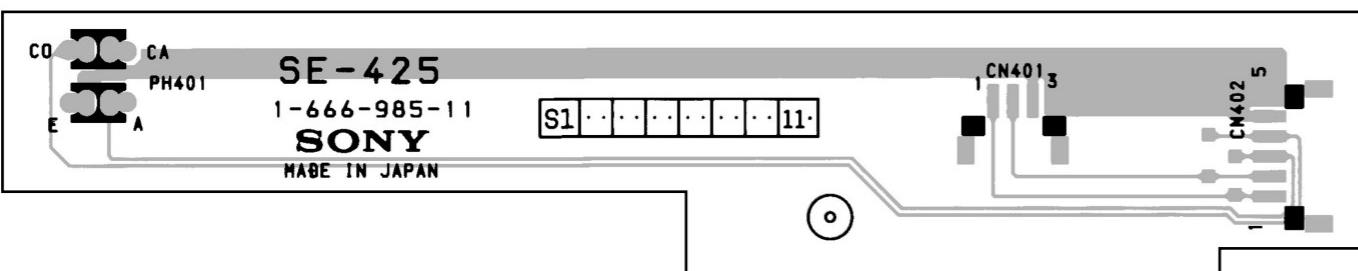
1



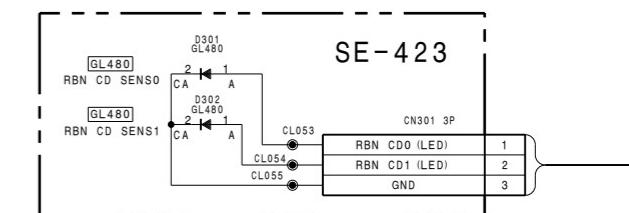
SE-424 A SIDE
1-666-984-11



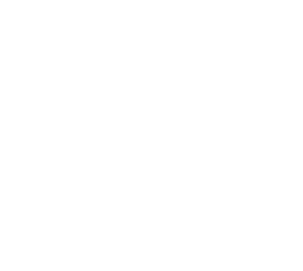
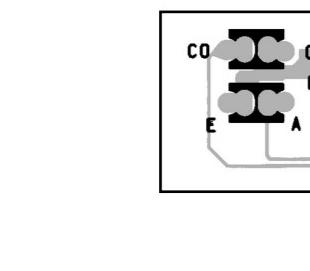
2



SE-425 A SIDE
1-666-985-11

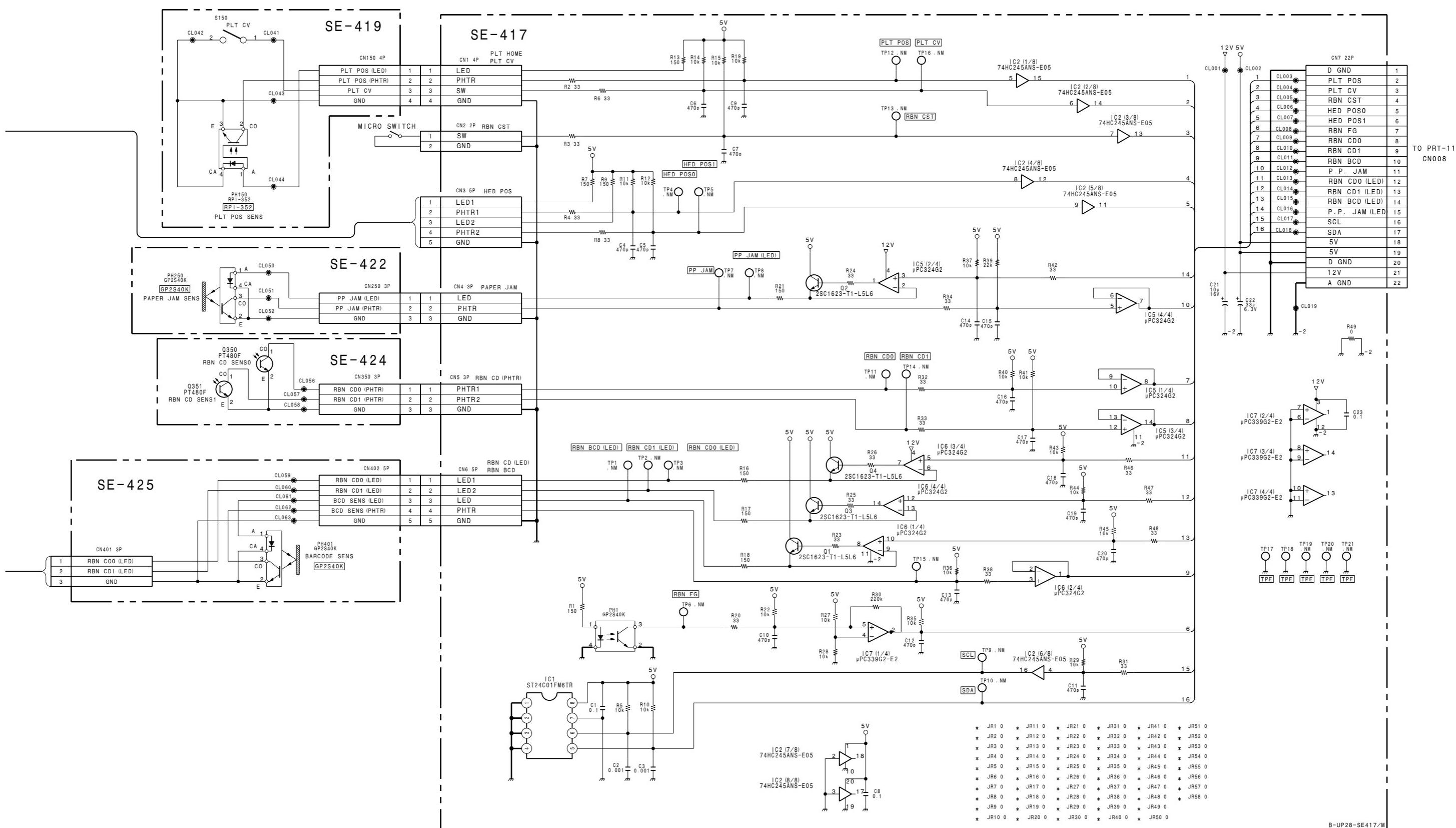


3



4

5



SE-418

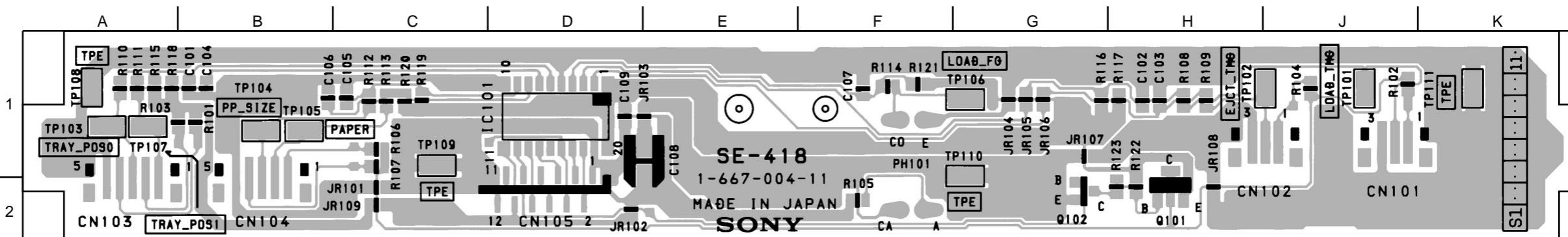
CN101 I-2
CN102 H-2
CN103 A-2
CN104 B-2
CN105 D-1

IC101 C-1

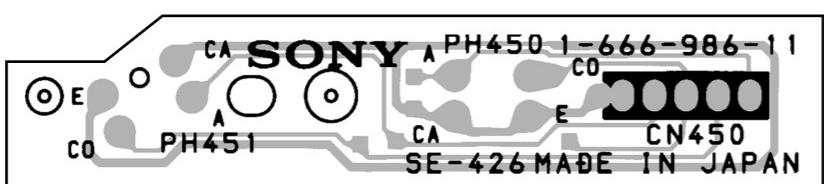
JR101 C-2
JR102 D-2
JR103 E-1
JR104 G-1
JR105 G-1
JR106 G-1
JR107 G-1
JR108 H-1
JR109 C-2

PH101 F-1

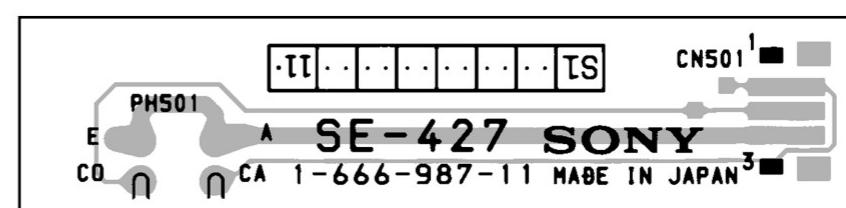
Q101 H-2
Q102 G-2



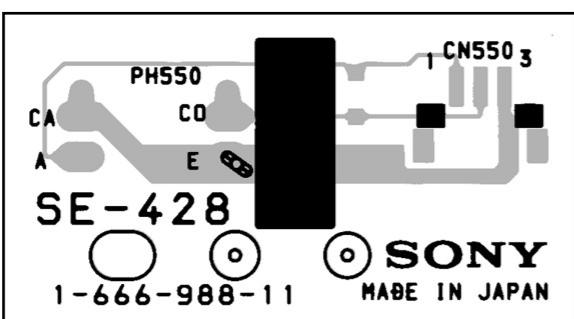
SE-418 A SIDE
1-667-004-11



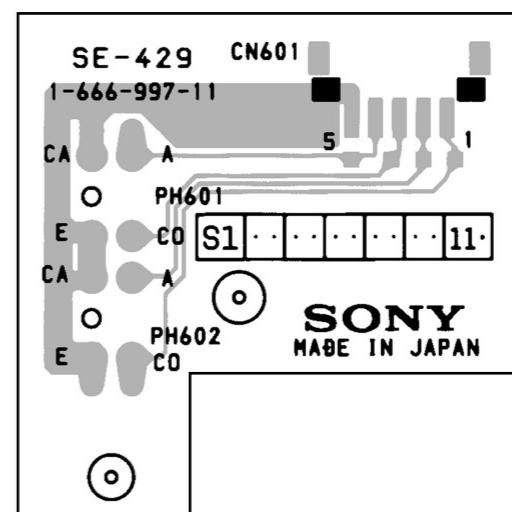
SE-426 A SIDE
1-666-986-11



SE-427 A SIDE
1-666-987-11



SE-428 A SIDE
1-666-988-11



SE-429 A SIDE
1-666-997-11

1

2

3

4

5

10-30

10-30

UP-2800 (J, UC, CE)

A

B

C

D

E

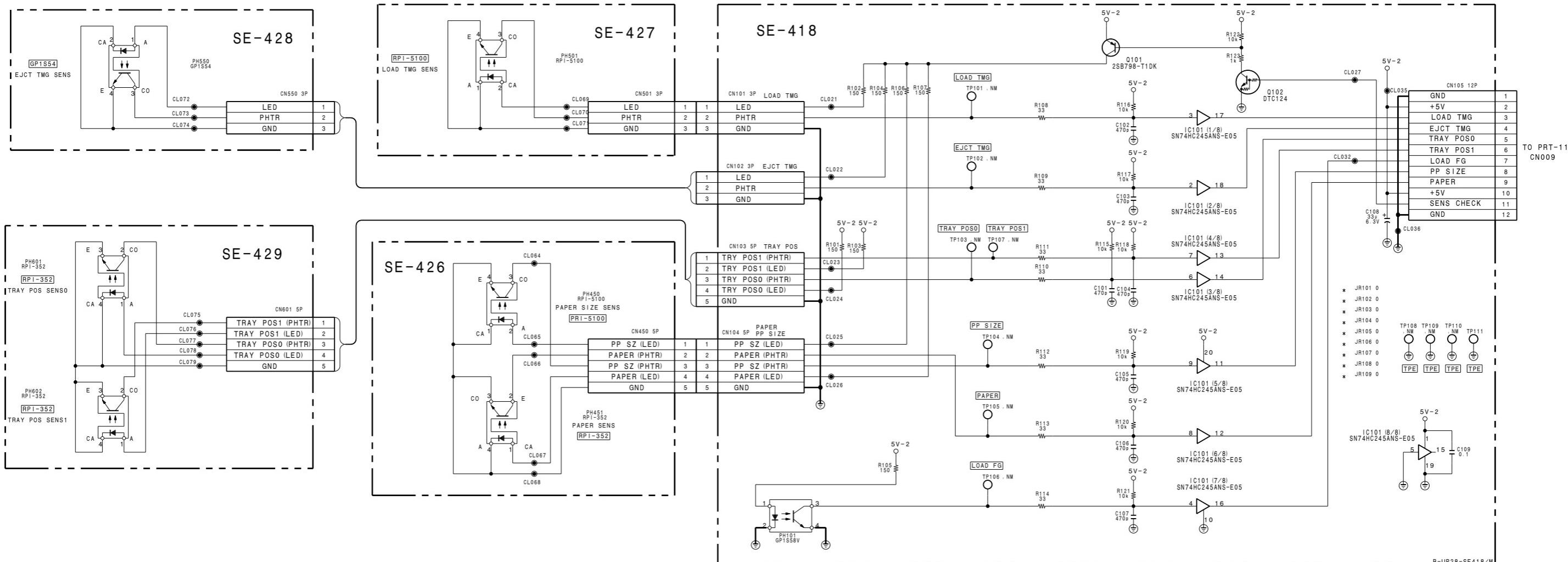
F

G

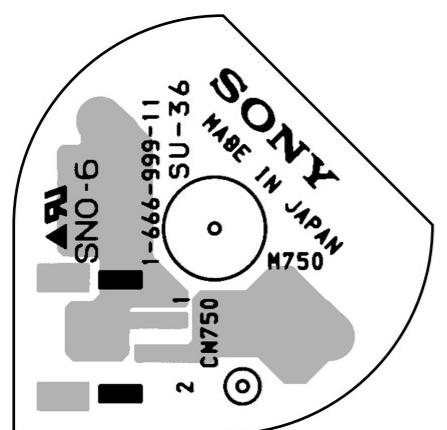
H

SENSOR

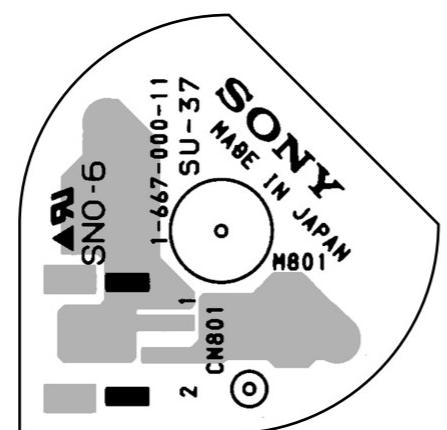
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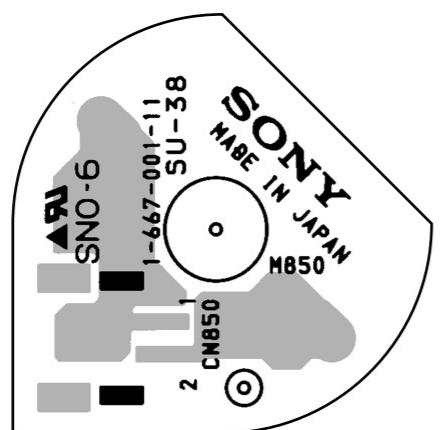
MOTOR



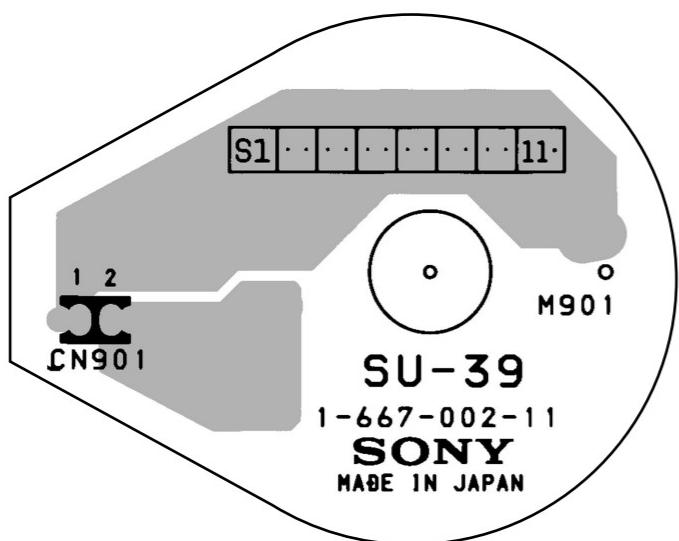
SU-36 A SIDE
1-666-999-11



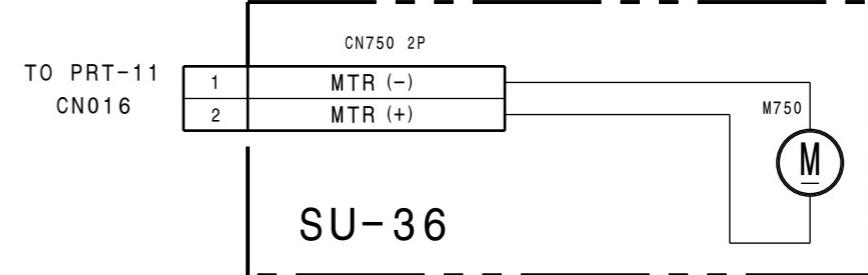
SU-37 A SIDE
1-667-000-11



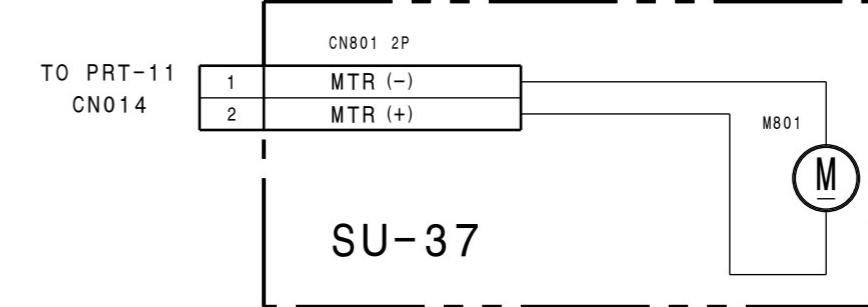
SU-38 A SIDE
1-667-001-11



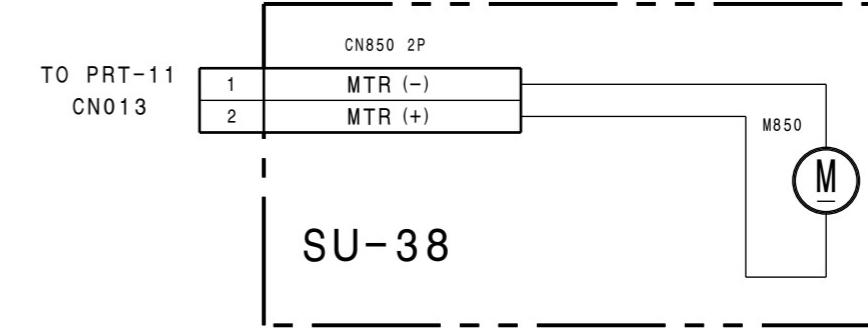
SU-39 A SIDE
1-667-002-11
SONY
MADE IN JAPAN



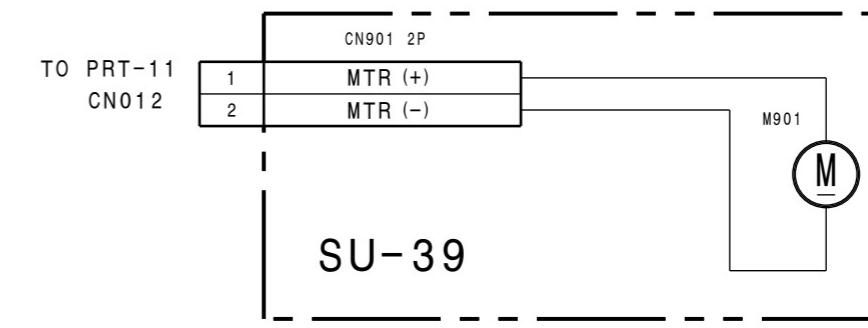
SU-36



SU-37



SU-38



SU-39

B-UP28-SU36/M

SY-250

CN1 F-2
CN1001 A-3
CN1002 A-2
CN1003 A-1
CN1004 F-2
CN1005 C-1
CN1006 F-4
CN1007 F-3
CNI200 B-4

*D110 B-1
*D111 B-1
*D112 B-1
*D113 B-1
*D1190 C-2
*D600 E-4
*D601 D-3

IC100 C-3
IC101 D-1
IC110 B-2
IC150 E-2
*IC190 C-1

IC200 C-3
IC220 B-3
*IC230 D-2
IC250 B-3
IC270 D-2
*IC280 D-1
*IC281 D-1
*IC300 E-3
*IC301 E-4
*IC302 E-3
IC400 E-1
IC401 E-2
IC402 B-2
*IC403 C-3
IC404 B-2
IC500 D-4

J1 F-4
J2 F-4

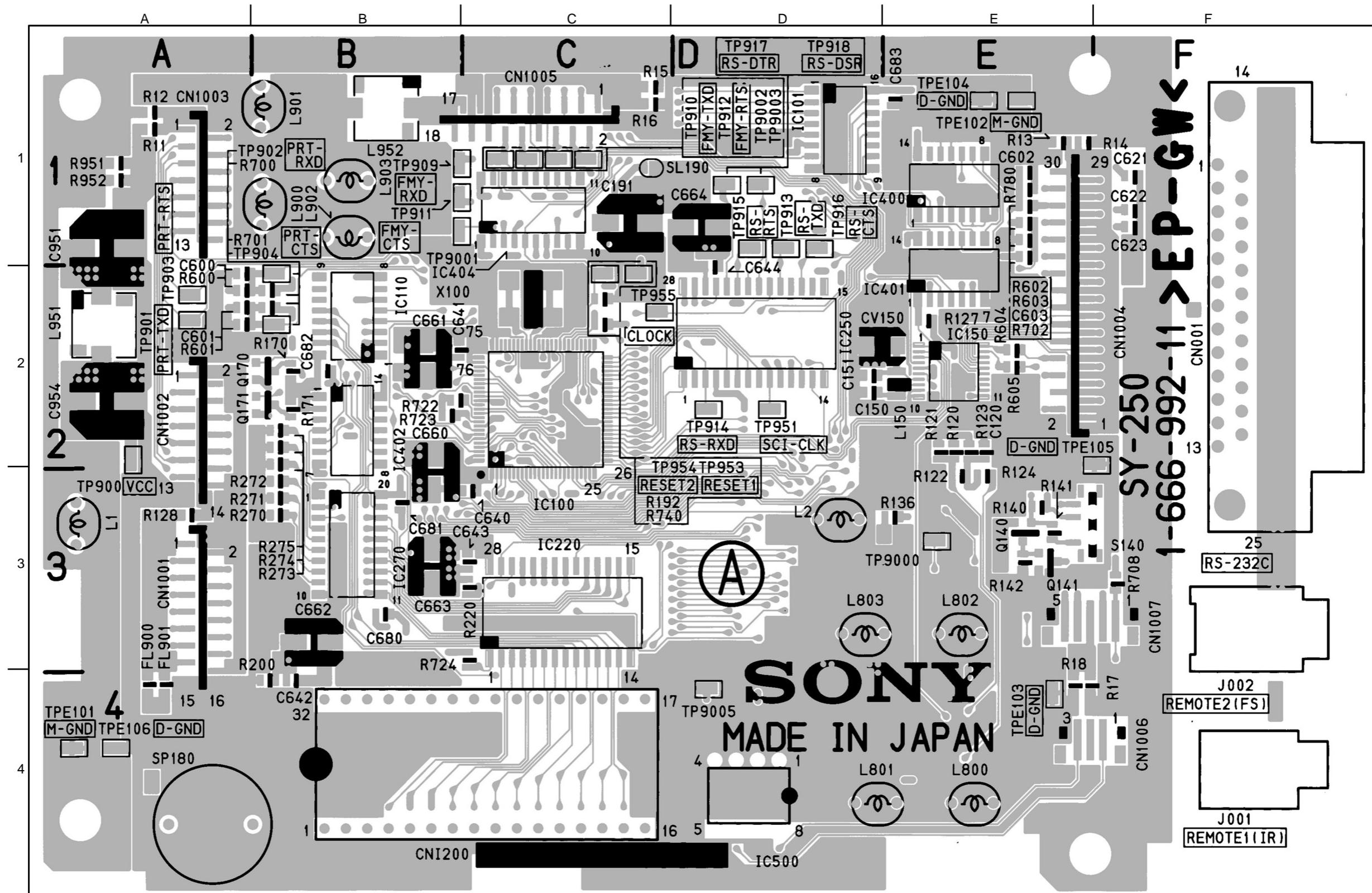
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Q141 E-3
*Q160 E-2
Q170 A-2
Q171 A-2
*Q180 A-4

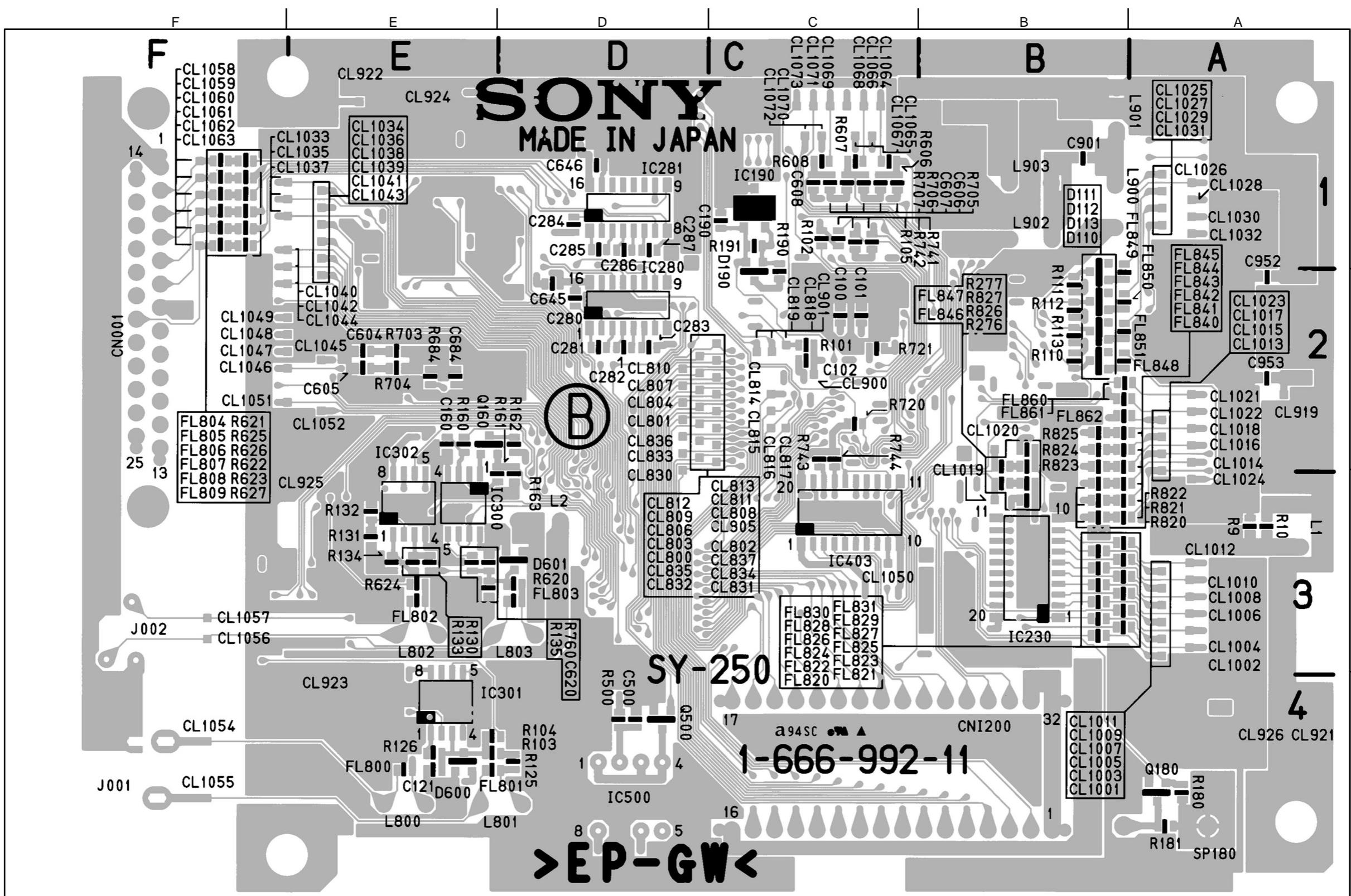
SP180 A-4

TP900 A-3
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TP903 A-2
TP904 B-1
TP909 B-1
TP910 D-1
TP911 B-1
TP912 B-1
TP913 D-1
TP914 D-2
TP915 D-1
TP916 D-1
TP917 D-1
TP918 D-1
TP919 D-1
TP920 D-1
TP921 D-1
TP922 D-1
TP923 D-1
TP924 D-1
TP925 D-1
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TP957 E-3
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TP999 D-2
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TP9002 D-1
TP9003 D-1
TP9004 D-4
TPE101 A-4
TPE102 E-1
TPE103 E-4
TPE104 E-1
TPE105 F-2
TPE106 A-4

X100 C-2

*: B SIDE





SY-250 B SIDE
1-666-992-11

1

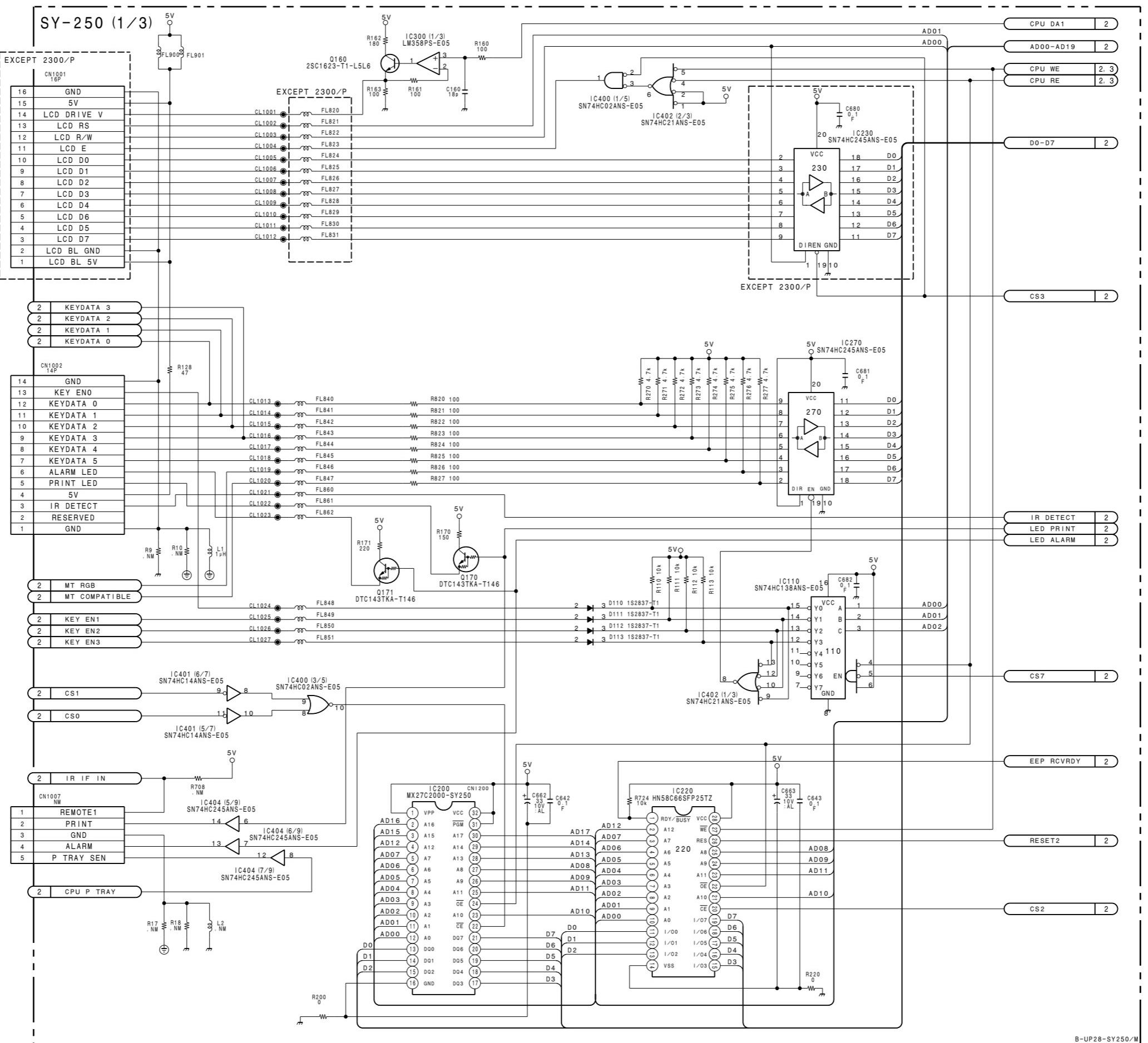
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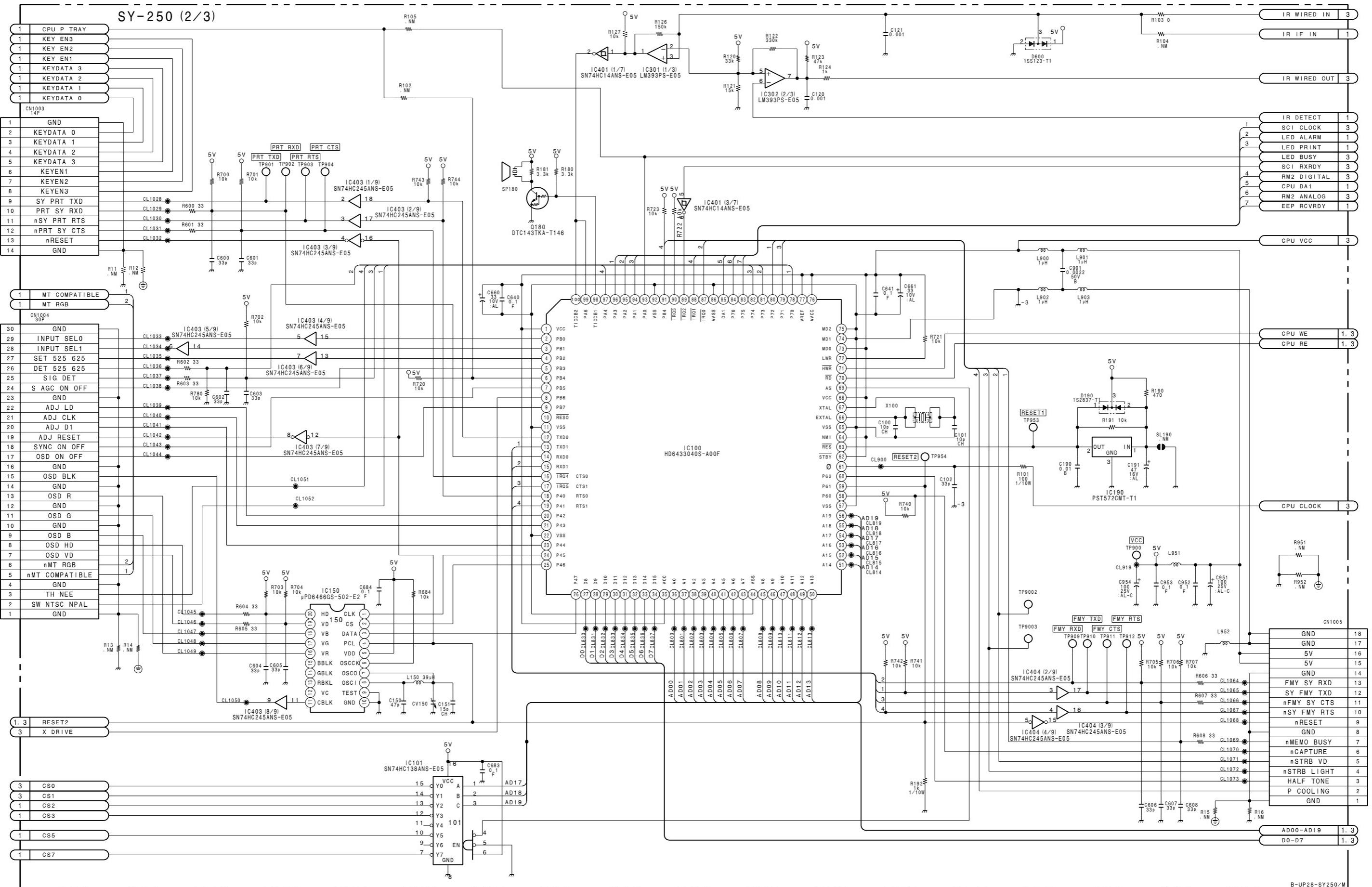
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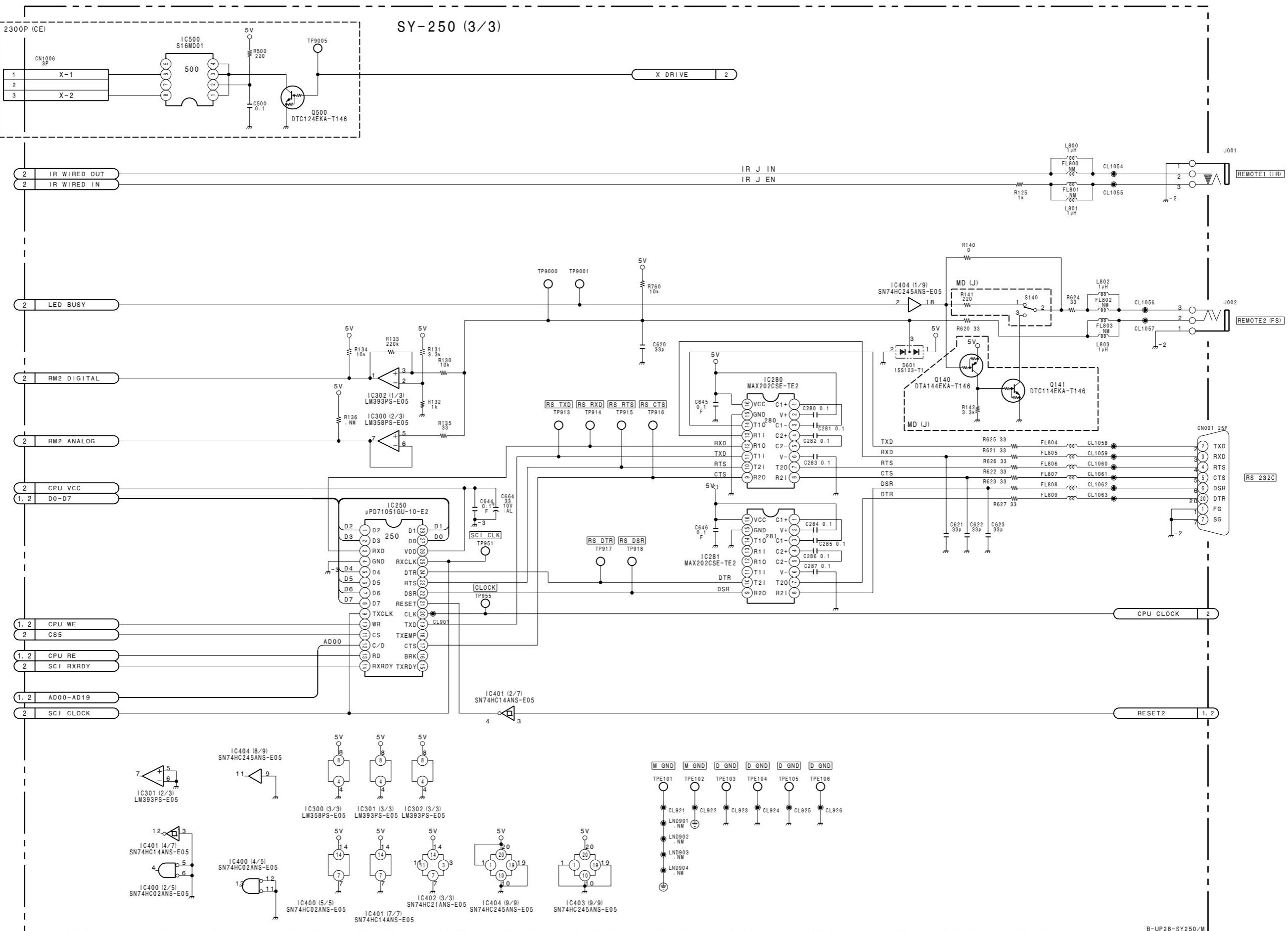
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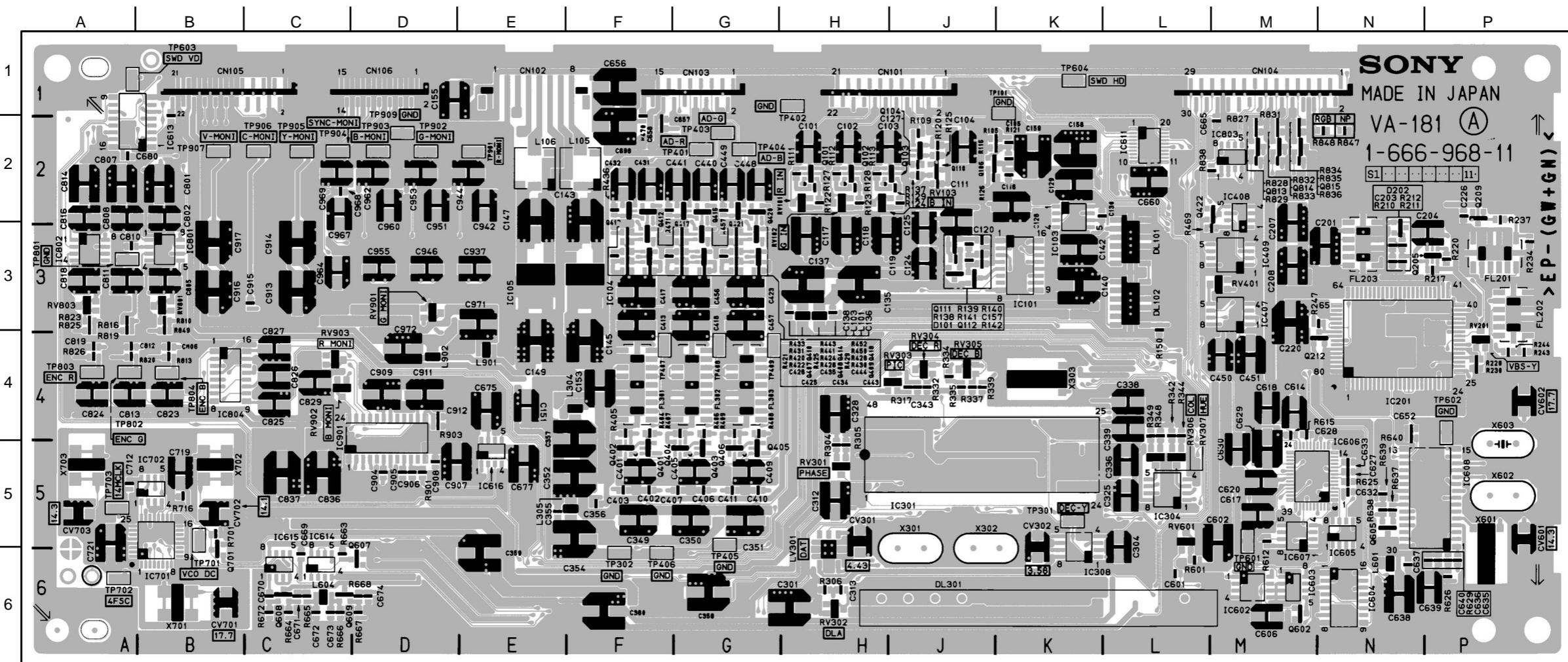
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RS-232C INTERFACE







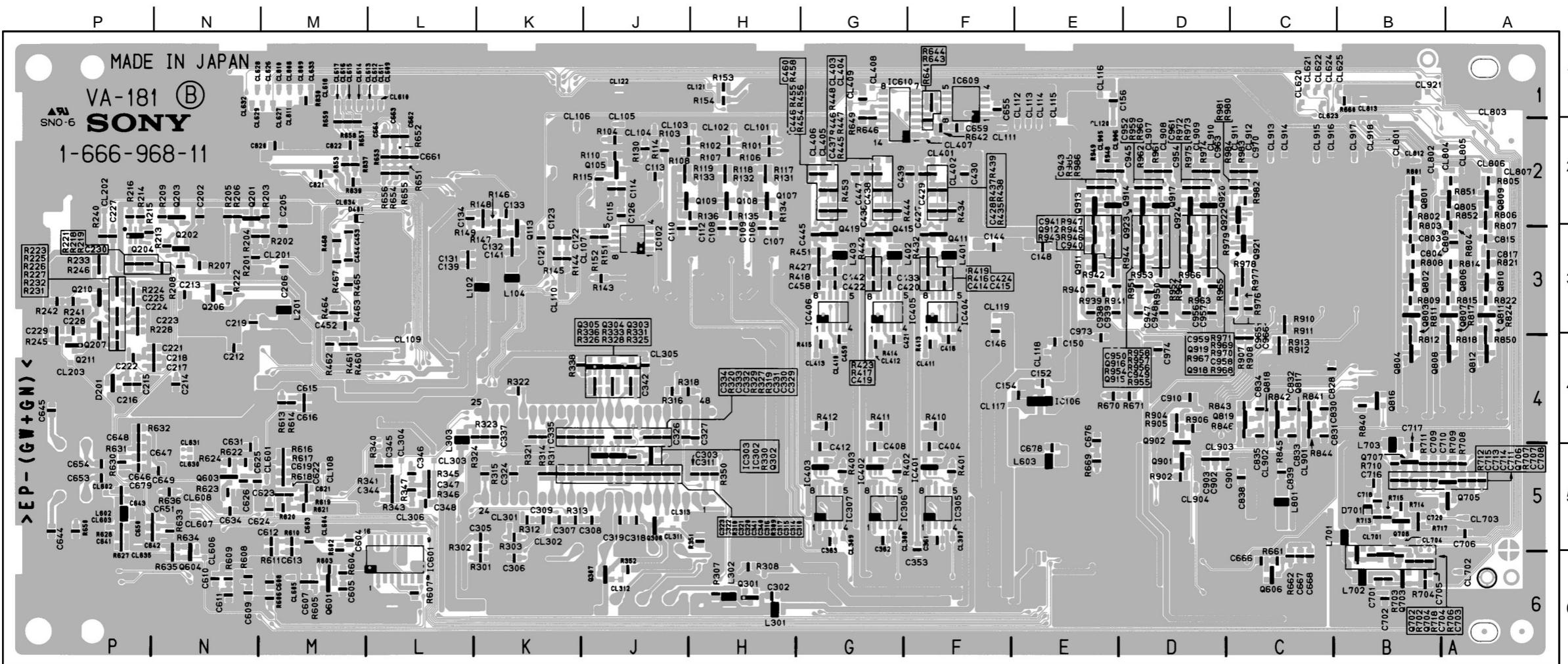


VA-181 A SIDE

1-666-960-11

VA-181

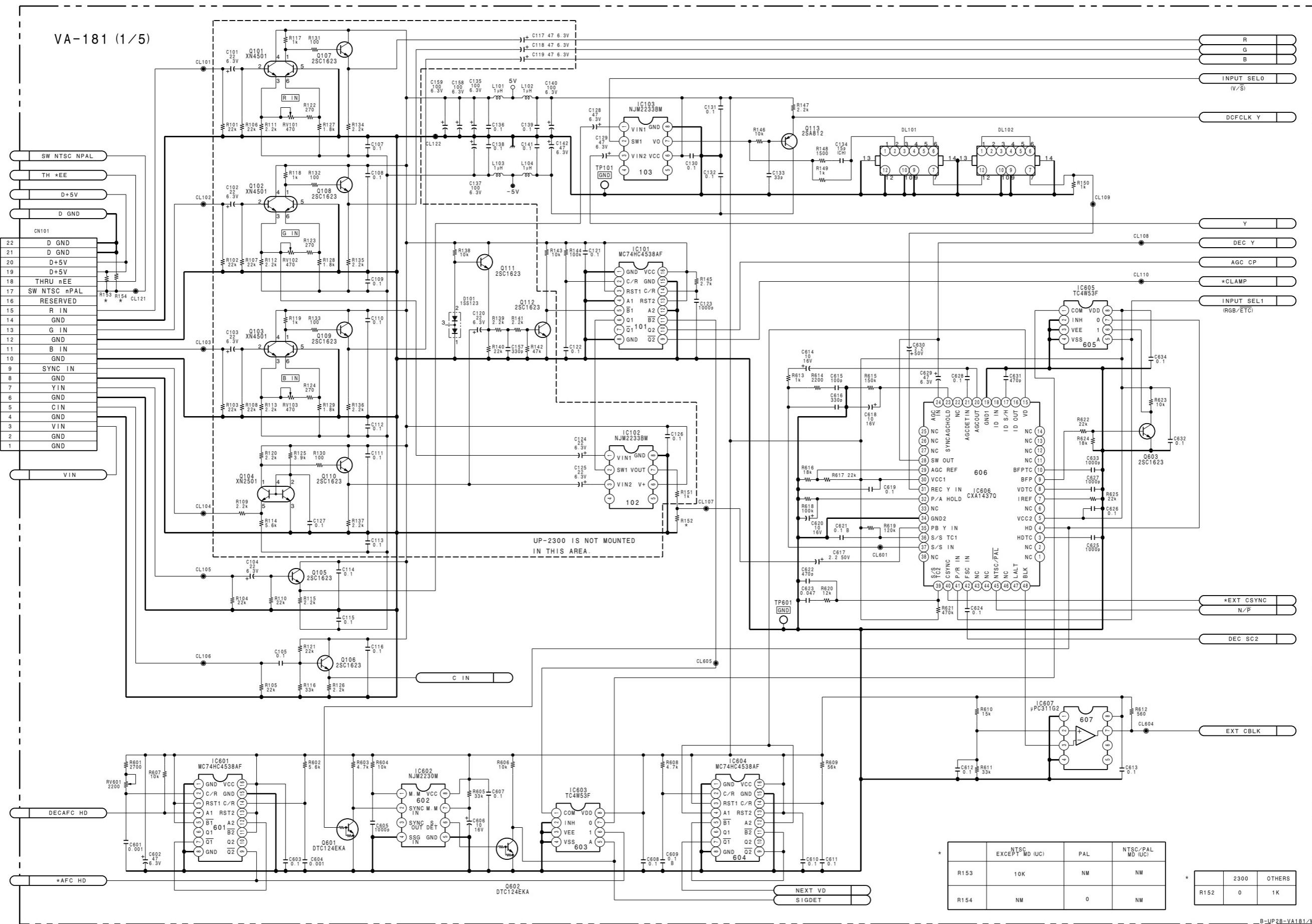
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CN103	G-1	IC105	E-3	IC614	C-5	*Q207	P-4	Q421	G-2	Q815	N-2	RV307	L-4
CN104	M-1	IC106	E-4	IC615	C-5	Q209	P-2	Q422	L-2	*Q816	B-4	RV401	M-3
CN105	B-1	IC201	N-4	IC616	E-5	*Q210	P-3	*Q601	M-6	*Q817	C-4	RV601	L-5
CN106	D-1	IC301	J-5	IC701	B-6	*Q211	P-4	Q602	M-6	*Q818	C-4	RV801	B-3
CV301	H-5	*IC302	H-5	IC702	B-5	Q212	M-4	*Q603	N-5	*Q819	D-4	RV803	A-3
CV302	K-5	*IC303	H-5	IC801	B-3	*Q301	H-6	*Q604	N-6	*Q901	D-5	RV901	D-3
CV601	P-5	IC304	L-5	IC802	A-3	*Q302	H-5	Q605	N-5	*Q902	D-4	RV902	C-4
CV602	P-4	*IC305	F-5	IC803	M-2	*Q303	J-3	*Q606	C-6	*Q911	E-3	RV903	C-4
CV701	B-6	*IC306	G-5	IC804	B-4	*Q304	J-3	Q607	D-6	*Q912	E-3		
CV702	B-5	*IC307	G-5	IC901	C-4	*Q305	J-3	Q608	C-6	*Q913	E-2	X301	J-5
CV703	A-5	IC308	K-6			*Q306	J-5	Q609	C-6	*Q914	D-2	X302	J-5
D101	J-3	*IC401	F-5	LV301	H-6	*Q307	J-6	Q701	B-6	*Q915	E-4	X303	K-4
*D201	P-4	*IC402	G-5			Q401	F-5	*Q702	B-6	*Q916	E-4	X601	P-5
D202	N-2	*IC403	G-5	Q101	H-2	Q402	F-5	*Q703	B-5	*Q917	D-2	X602	P-5
*D401	M-2	*IC404	F-3	Q102	H-2	Q403	G-5	*Q704	B-6	*Q918	D-4	X603	P-4
*D701	B-5	*IC405	F-3	Q103	J-2	Q404	F-5	*Q705	A-5	*Q919	D-4	X701	B-6
DL101	L-3	*IC406	G-3	Q104	J-1	Q405	G-5	*Q707	B-5	*Q920	D-2	X702	B-5
DL102	L-3	IC407	M-3	*Q105	J-2	Q406	G-5	*Q708	B-5	*Q921	C-3	X703	A-5
DL301	J-6	IC408	M-2	Q106	J-2	Q407	H-4	*Q801	B-2	*Q922	D-2		
		IC409	M-3	*Q107	H-2	Q408	H-4	*Q802	B-3	*Q923	D-2		
		*IC601	L-6	*Q108	H-2	Q409	H-4	*Q803	B-3	*Q924	D-2		
FL201	P-3	IC602	M-6	*Q109	H-2	Q410	H-4	*Q804	B-4				
FL202	P-3	IC603	M-6	Q110	J-2	*Q411	F-3	*Q805	A-2	RV101	H-2		
FL203	N-3	IC604	N-6	Q111	J-3	Q412	F-2	*Q806	A-3	RV102	G-3		
FL301	F-4	IC605	N-6	Q112	J-3	Q413	F-2	*Q807	A-3	RV103	J-2		
FL302	G-4	IC606	N-5	*Q113	K-3	Q414	H-4	*Q808	B-4	RV201	P-3		
FL303	G-4	IC607	M-6	*Q201	N-2	*Q415	G-3	*Q809	A-2	RV301	H-5		
IC101	K-3	IC608	P-5	*Q202	N-3	Q416	G-2	*Q810	A-3	RV302	H-6		
*IC102	J-3	IC609	F-1	*Q203	N-2	Q417	G-2	*Q811	A-3	RV303	J-4		
		IC610	G-1	*Q204	P-3	Q418	H-4	*Q812	A-4	RV304	J-4		



VA-181 B SIDE

1-666-960-11

ANALOG VIDEO



10-40

10-40

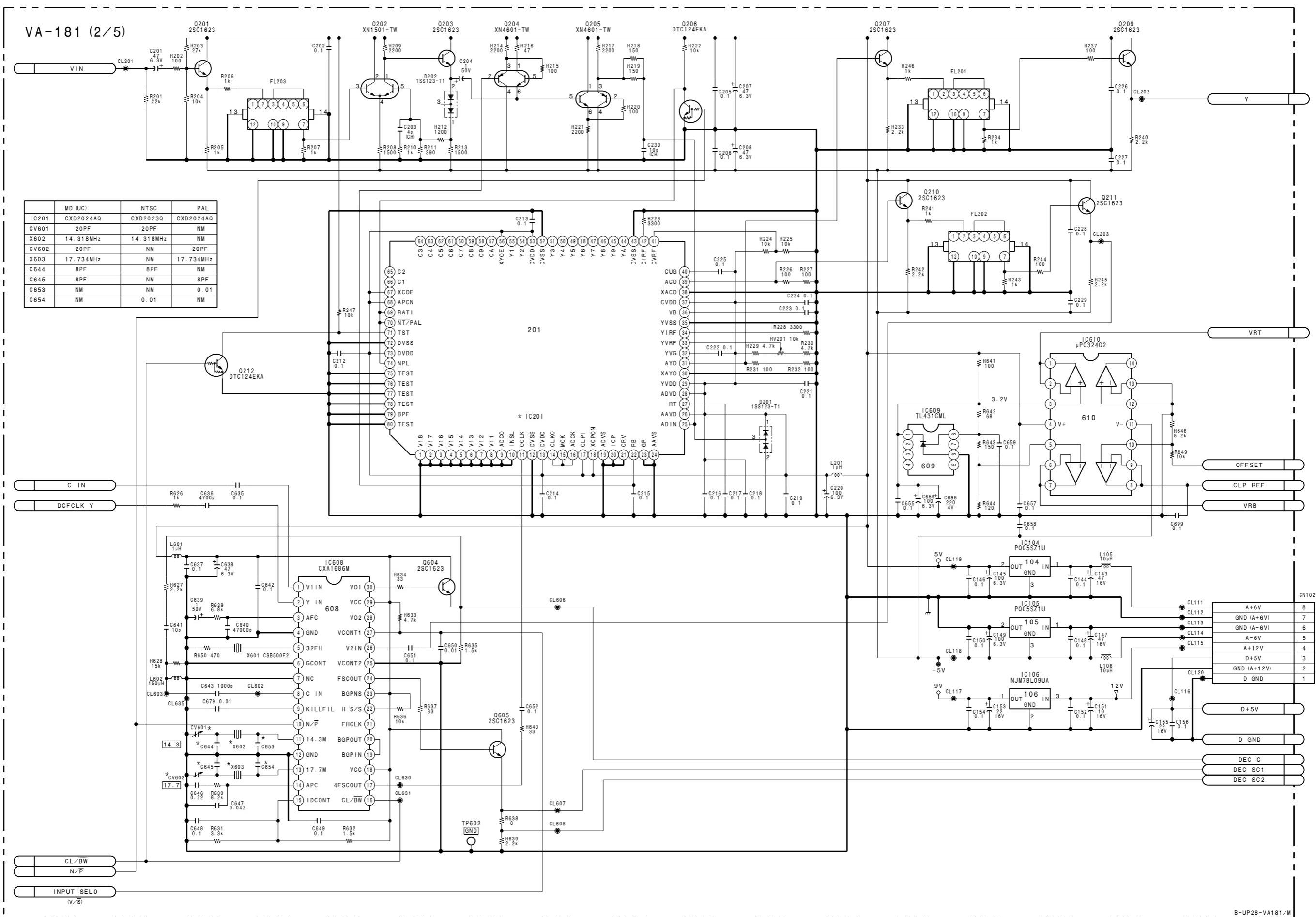
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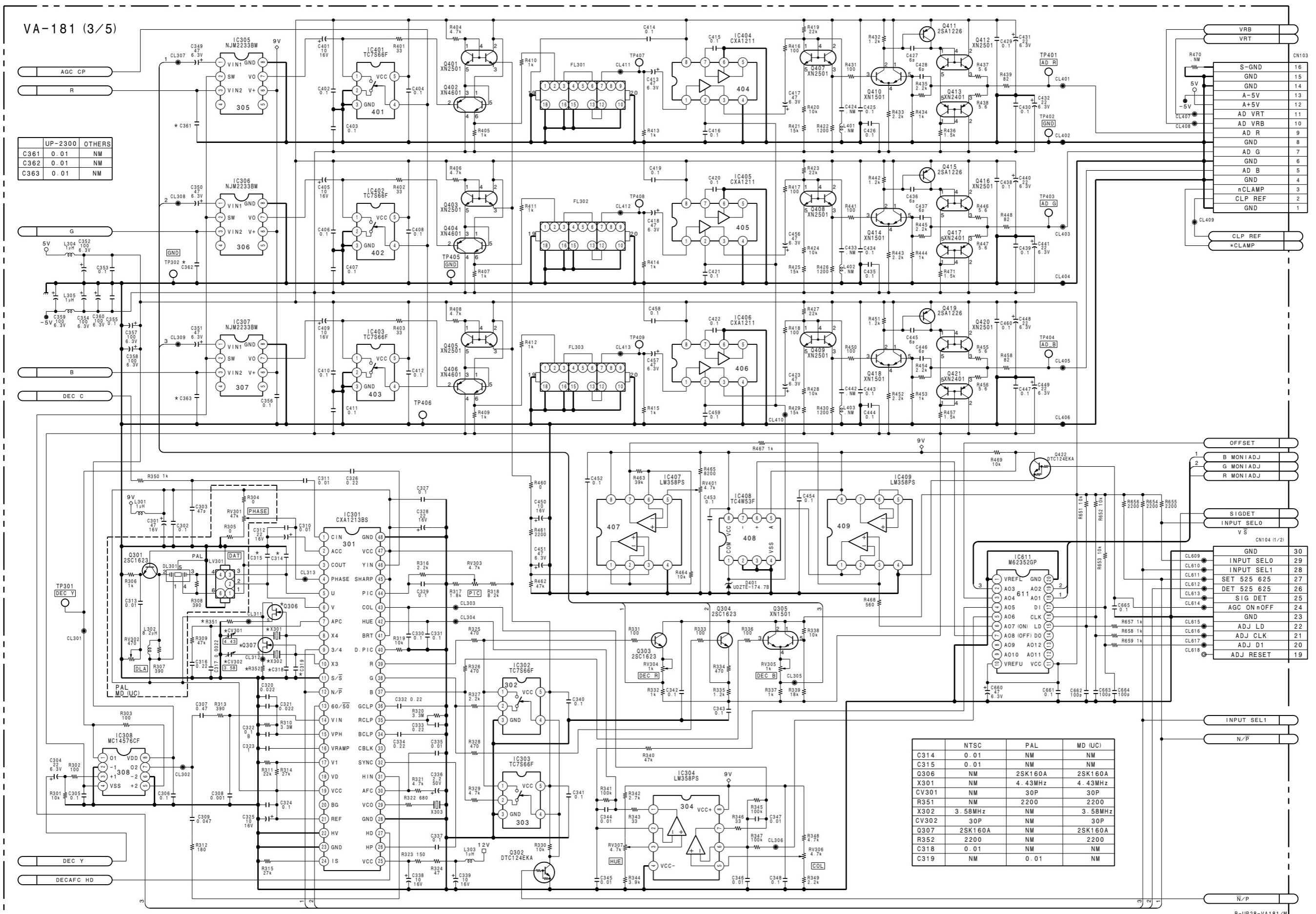
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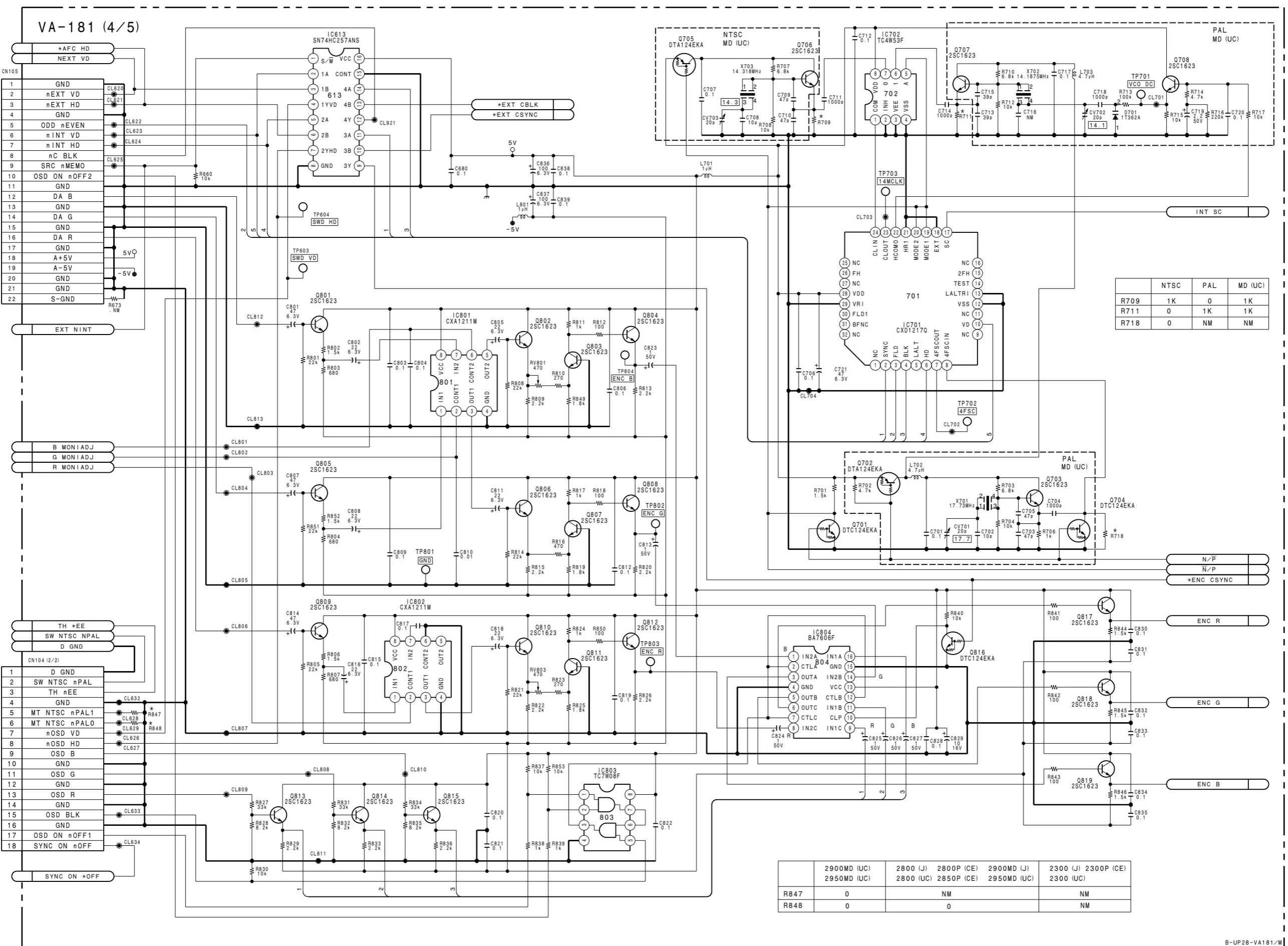
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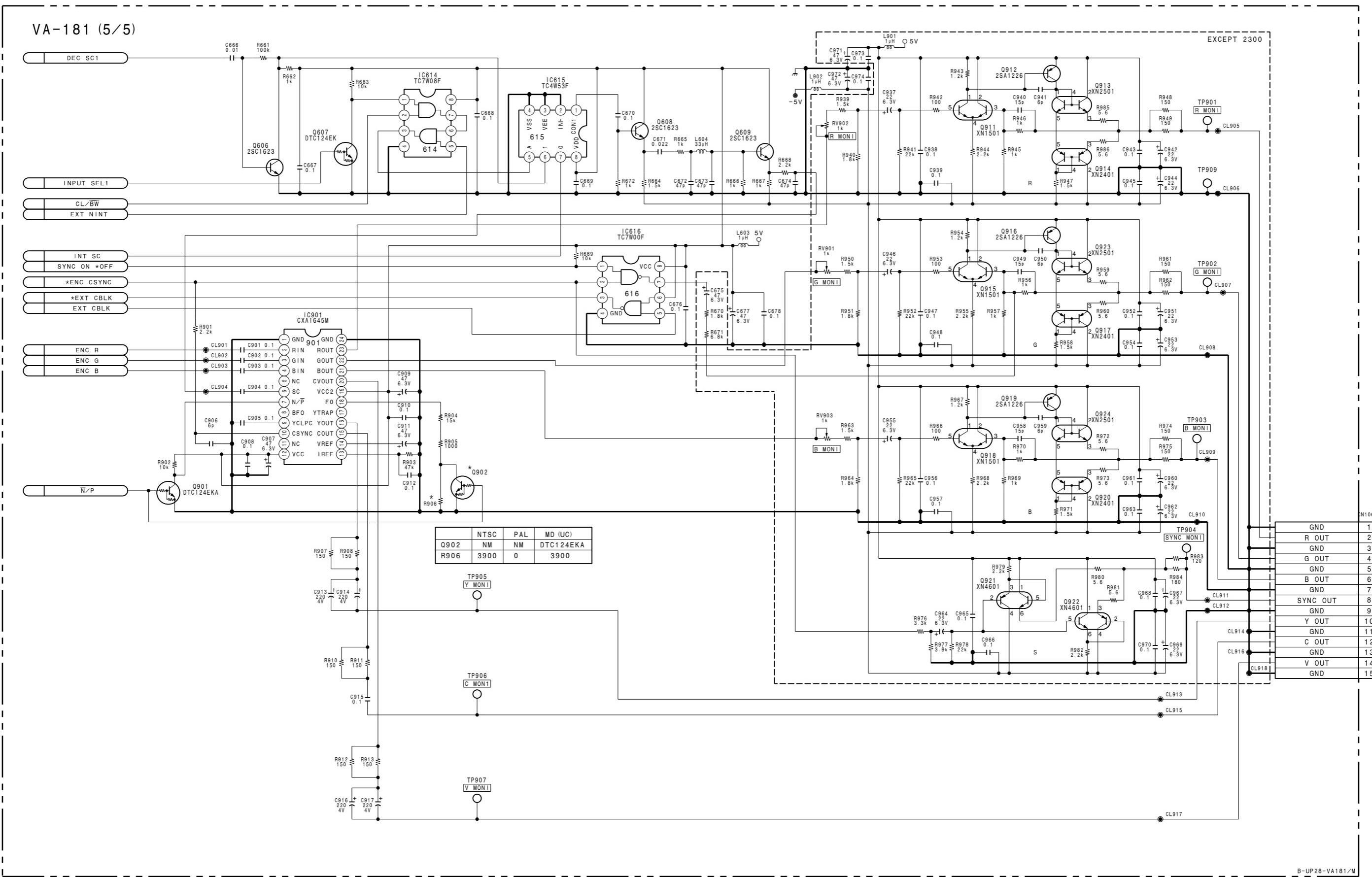
G

H









UP-2800 (J, UC)
UP-2900MD (J, UC)
UP-2950MD (J, UC)
UP-2300 (J, UC)
UP-2800P (CE)
UP-2850P (CE)
UP-2300P (CE)
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